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Malathion

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Chemical of Concern: EN,DLD,HPT,DDT,MXC,PRN,MLN,DZ,AND; Habitat: A; Effect Codes: BEH; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: CuS,CYF,MLT,CBF,FNT,MLN,TCF,CBL,ES,HCCH; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL,CBF,CYF),NO MIXTURE(MLT),NO ENDPOINT(CuS,FNT,MLN,TCF,ES,HCCH).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: REP,CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: 24DXY,DZ,HCCH,MLN,MP,ACL,NAA,NYP,CST,Cu,RTN,NaN3,Ni,CuS,PCP,NaPCP,NaCr,DBAC,Zn,ATZ,Cd,NaID,Pb,As,DCB,CBL,DMPA; Habitat: A; Effect Codes: BEH,MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: AZ,CBL,DZ,HCCH,MLN,Naled,PSM,24DXY,DS,DU,PEB,Folpet,RTN,FBM,CHD,DEM,TXP,MRX,ETN,DZ,AND,MCPA,HPT,DDT,DDVP,EN,CBL,MXC,OXD; Habitat: A; Effect Codes: NOC,GRO,MOR,BEH,PHY; Code: NO CONTROL(ALL CHEMS),NO ENDPOINT,NO CONTROL(OXD,MLN).

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Chemical of Concern: AZ,DS,HCCH,MLN,MP,Naled,PRT,24DXY,CMPH,DMT,DU,PEB,PSM,NTP,TXP,CBL; Habitat: A; Effect Codes: BEH,POP,MOR,GRO,ACC,SYS; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 13669  
Chemical of Concern: 24DXY,HCCH,MLN,WFN,PCP,Ba,CTC,PL,SFL,NCTN,LPS,PAQT,As,CuS,Hg,TI,CF,AMSV; Habitat: A; Effect Codes: MOR,PHY; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 3461  
Chemical of Concern: CF,24DXY,C8OH,NP,CBL,ACC,PCP,RTN,MLN; Habitat: A; Effect Codes: PHY,MOR; Code: LITE EVAL CODED(CBL,C8OH,ACL),NO ENDPOINT(ALL CHEMS).

Carter, F. L. and Graves, J. B. (1972). Measuring Effects of Insecticides on Aquatic Animals. *La.Agric.* 16: 14-15.

EcoReference No.: 942  
Chemical of Concern: CPY,MP,AZ,DCTP,CBL,CBF,DDT,TXP,MRX,MLN,MOM,ADC; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 86546  
Chemical of Concern: MLN,PRN,BZO; Habitat: T; Effect Codes: ACC; Code: NO CONTROL(ALL CHEMS).

Casida, J. E., Baron, R. L., Eto, M., and Engel, J. L. (1963). Potentiation and Neurotoxicity Induced by Certain Organophosphates. *Biochem.Pharmacol.* 12: 73-83.

EcoReference No.: 89459  
Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL(MLN).

Chadwick, P. R., Slatter, R., and Bowron, M. J. (1984). Cross-Resistance to Pyrethroids and Other Insecticides in Aedes aegypti. *Pestic.Sci.* 15: 112-120.

EcoReference No.: 11465  
Chemical of Concern: DLD,BRSM,PYN,MLN,PMR,PPX,DDT; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 25363  
Chemical of Concern: MLN,GIB,IAA; Habitat: T; Effect Codes: BCM,CEL; Code: NO ENDPOINT(MLN,GIB,IAA).

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EcoReference No.: 3444  
Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

Chandra, S. (1988). Effect of Malathion on the Cholesterol Levels of Different Tissues of Fresh Water Catfish (Clarias batrachus). *J.Rec.Adv.Appl.Sci.* 3: 500-503.

EcoReference No.: 14587  
Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

Chandrashekar, K. R. and Kaveriappa, K. M. (1994). Effect of Pesticides on Sporulation and Germination of Conidia of Aquatic Hyphomycetes. *J.Environ.Biol.* 15: 315-324 .

EcoReference No.: 13517  
Chemical of Concern: 24DXY,MLN,PQT,Zn,MZB,Captan; Habitat: A; Effect Codes: REP,GRO; Code: NO ENDPOINT(Captan,24DXY,MLN,PQT,Zn,MZB).

Chaudhari, T. R., Jadhav, M. L., and Lomte, V. S. (1988). Acute Toxicity of Organophosphates to Fresh Water Snails From Panzara River at Dhule, MS. *Environ.Ecol.* 6: 244-246.

EcoReference No.: 13204  
Chemical of Concern: DMT,MLN; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(DMT),NO CONTROL(MLN).

Cheah, M.-L., Avault, J. W. Jr., and Graves, J. B. (1980). Acute Toxicity of Selected Rice Pesticides to Crayfish Procambarus clarkii. *Prog.Fish-Cult.* 42: 169-172 .

EcoReference No.: 5245  
Chemical of Concern: CuOH,BMY,THM,24DXY,MLT,MP,CBL,CBF,MLN,PPN,Captan; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(MLT,CuOH),NO CONTROL(ALL CHEMS).

Chen, P.-S., Lin, Y.-N., and Chung, C.-L. (1971). Laboratory Studies on the Susceptibility of Mosquito-Eating Fish, Lebistes reticulatus and the Larvae of Culex pipiens fatigans to Insecticides. *Tai-Wan I.Hsueh Hui Tsa Chih* 70: 28-35.

EcoReference No.: 9297  
Chemical of Concern: DDT,PRN,HCCH,CBL,MLN,DZ; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

Chitra, S. and Pillai, M. K. K. (1984). Development of Organophosphorus and Carbamate-Resistance in Indian Strains of Anopheles stephensi Liston. *Proc.Indian Acad.Sci.Anim.Sci.* 93: 159-170.

EcoReference No.: 12464  
Chemical of Concern: DDT,CBL,MLN,CBF,FNT,TMP,FNTH,CPY,DDVP,PPX; Habitat: A; Effect Codes: MOR,CEL; Code: LITE EVAL CODED(CBL,CBF),OK(ALL CHEMS),NO CONTROL(MLN).

Choudhuri, D. K., Sadhu, A. K., and Mukhopadhyay, P. K. (1984). Toxicity of Two Organophosphorus Insecticides - Malathion and Phosphamidon to the Fish Channa striatus. *Aquat.Sci.Fish.Abstr.14:264 / Environ.Ecol.* 2: 143-148.

EcoReference No.: 11701  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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EcoReference No.: 87652  
Chemical of Concern: CBL,MLN; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(TARGET-CBL,MLN).

Christie, A. E. (1969). Effects of Insecticides on Algae. *Water Sewage Works* 116: 172-176.

EcoReference No.: 2248  
Chemical of Concern: CBL,MLN,DDT; Habitat: A; Effect Codes: GRO,ACC; Code: NO ENDPOINT(CBL,MLN,DDT).

Christopher, J. T., Preston, C., and Powles, S. B. (1994). Malathion Antagonizes Metabolism-Based Chlorsulfuron Resistance in Lolium rigidum. *Pestic.Biochem.Physiol.* 49: 172-182.

EcoReference No.: 68157  
Chemical of Concern: CSF,ABT,PPB,MLN; Habitat: T; Effect Codes: MOR; Code: OK(CSF),NO ENDPOINT,MIXTURE(ABT,PPB),NO CONTROL(MLN).

Chu, K. H. and Lau, P. Y. (1994). Effects of Diazinon, Malathion, and Paraquat on the Behavioral Response of the Shrimp Metapenaeus ensis to Chemoattractants. *Bull.Environ.Contam.Toxicol.* 53: 127-133.

EcoReference No.: 13696  
Chemical of Concern: DZ,MLN,AMSV,PAQT,BZ; Habitat: A; Effect Codes: BEH; Code: LITE EVAL CODED(DZ,AMSV),OK(PAQT,BZ),NO ENDPOINT(MLN).

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EcoReference No.: 88950  
Chemical of Concern: CPY,MLN,BFT,ACP,AZ,EFV,FVL,FNV,PMR; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(TARGET-ALL CHEMS).

Clemens, H. P. and Sneed, K. E. (1959). Lethal Doses of Several Commercial Chemicals for Fingerling Channel Catfish. *U.S.Fish.Wildl.Serv., Spec.Sci.Rep.- Fish No.316, Washington, D.C.:* 10 p.

EcoReference No.: 934  
Chemical of Concern: NaPCP,HCCH,MBZ,MLN,DMM,TXP,PL,Fe,HPT,DZ,DDT,DLD,CHD,FML,RTN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 8797  
Chemical of Concern: CBL,MLN,DDT,AND; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(CBL,DDT,MLN,AND).

Cohen, S. D. and Murphy, S. D. (1971). Carboxylesterase Inhibition as an Indicator of Malathion Potentiation in Mice. *J.Pharmacol.Exp.Ther.* 176: 733-742.

EcoReference No.: 89264  
Chemical of Concern: PRN,ABT,MLN; Habitat: T; Effect Codes: BCM; Code: NO CONTROL(MLN),NO MIXTURE(PRN,ABT),NO COC(MLO).

Conte, F. S. and Parker, J. C. (1975). Effect of Aerially-Applied Malathion on Juvenile Brown and White Shrimp Penaeus aztecus and P. setiferus. *Trans.Am.Fish.Soc.* 104: 793-799.

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,ACC; Code: NO ENDPOINT(MLN).

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EcoReference No.: 7751  
Chemical of Concern: MLN; Habitat: A; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

Cook, G. H., Moore, J. C., and Coppage, D. L. (1976). The Relationship of Malathion and its Metabolities to Fish Poisoning. *Bull.Environ.Contam.Toxicol.* 16: 283-290 .

EcoReference No.: 7752  
Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

Cope, O. B. (1966). Contamination of the Freshwater Ecosystem by Pesticides. *J.Appl.Ecol.* 3: 33-44 (Publ in Part As 6797).

EcoReference No.: 10337  
Chemical of Concern: DDT,HCCH,DLD,DU,MLN,24DXY,CBL,DBN,DZ,MLT,PAQT,PYN,TFN,CuS; Habitat: A; Effect Codes: MOR,ACC,REP; Code: NO CONTROL(ALL CHEMS).

Cope, O. B. (1965). Sport Fishery Investigations. *In: Fish and Wildl.Serv.Cicr.226, Effects of Pesticides on Fish and Wildlife - 1964 Research Findings of the Fish and Wildlife Service, Washington, D.C.:* 51-63 (Publ in Part As 6797).

EcoReference No.: 2871  
Chemical of Concern: CHD,CuS,PAQT,MCB,TFN,DBN,DZ,AND,PYN,HPT,EN,DLD,HCCH,EPRN,DDT,TXP,MRT,VNT,CU,ATN,DU,SZ,MLN,RTN,MXC,DDVP,DMT,FNTH,TCF,ADC,CBL,BS,DBM,FNF,24DXY,AMSV,DBAC,NSM,BYT,MVP; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(Naled,BS,MLN),OK(ALL CHEMS).

Coppage, D. L. and Matthews, E. (1974). Short-Term Effects of Organophosphate Pesticides on Cholinesterases of Estuarine Fishes and Pink Shrimp. *Bull.Environ.Contam.Toxicol.* 11: 483-488.

EcoReference No.: 2902  
Chemical of Concern: PRN,AZ,MLN,Naled; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(PRN,AZ,MLN,Naled),NO ENDPOINT(Naled,MLN).

Coppage, D. L., Matthews, E., Cook, G. H., and Knight, J. (1975). Brain Acetylcholinesterase Inhibition in Fish As a Diagnosis of Environmental Poisoning by Malathion, O,O-Dimethyl S-(1,2-Dicarbethoxyethyl) Phosphorodithioate. *Pestic.Biochem.Physiol.* 5: 536-542.

EcoReference No.: 7716  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 90683  
Chemical of Concern: DS,PPX,MLN,CPY; Habitat: T; Effect Codes: BCM,MOR,BEH,PHY; Code: NO CONTROL(MLN,CPY),OK(DS).

Crane, M., Delaney, P., Watson, S., Parker, P., and Walker, C. (1995). The Effect of Malathion 60 on Gammarus pulex (L.) Below Watercress Beds. *Environ.Toxicol.Chem.* 14: 1181-1188.

EcoReference No.: 15074  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BEH,BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 14348  
Chemical of Concern: TXP,AND,MLN,24DXY,PCP,CBL,HCCH,PRN,DDT,PAQT; Habitat: A; Effect Codes: GRO,MOR; Code: NO CONTROL,NO ENDPOINT(ALL CHEMS).

Crawford, R. B. and Guarino, A. M. (1976). Sand Dollar Embryos as Monitors of Environmental Pollutants. *Bull.Mt.Desert Isl.Biol.Lab.* 16: 17.

EcoReference No.: 13938  
Chemical of Concern: TXP,CBL,MLN,PCP,PL,DDT; Habitat: A; Effect Codes: GRO; Code: NO CONTROL,NO ENDPOINT(ALL CHEMS).

Crisinel, A., Delaunay, L., Rossel, D., Tarradellas, J., Meyer, H., Saiah, H., Vogel, P., Delisle, C., and Blaise, C. (1994). Cyst-Based Ecotoxicological Tests Using Anostracans: Comparison of Two Species of Streptocephalus. *Environ.Toxicol.Water Qual.* 9: 317-326.

EcoReference No.: 17289  
Chemical of Concern: Cd,ATZ,HCCH,MLN,TBT,Cu,CuS,PCP,PL,Zn,Cr,Cd; Habitat: A; Effect Codes: MOR,PHY; Code: NO CONTROL(MLN,ATZ),OK(ALL CHEMS).

Crosby, D. G., Tucker, R. K., and Aharonson, N. (1966). The Detection of Acute Toxicity with Daphnia magna. *Food Cosmet.Toxicol.* 4: 503-514.

EcoReference No.: 7984  
Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: PHY; Code: NO CONTROL(MLN).

Culley, D. D. Jr. and Ferguson, D. E. (1969). Patterns of Insecticide Resistance in the Mosquitofish, Gambusia affinis. *J.Fish.Res.Board Can.* 26: 2395-2401.

EcoReference No.: 3664  
Chemical of Concern: AZ,CMPH,CPY,MLN,MP,MXC,EN,DLD,HCCH,CHD,PRN,DDT,DZ ; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(AZ,DZ),NO CONTROL(ALL CHEMS).

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EcoReference No.: 17447  
Chemical of Concern: CPY,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

Dad, N. K. and Pandya, V. K. (1982). Acute Toxicity of Two Insecticides to Rotifer Brachionus calyciflorus. *Int.J.Environ.Stud.* 18: 245-246.

EcoReference No.: 18254  
Chemical of Concern: CBF; Habitat: A; Effect Codes: MOR; Code: NO COC(MLN).

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EcoReference No.: 2723  
Chemical of Concern: CBF,MLN; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBF),NO CONTROL(MLN).

Darsie, R. F. Jr. and Corriden, F. E. (1959). The Toxicity of Malathion to Killifish (Cyprinodontidae) in Delaware. *J.Econ.Entomol.* 52: 696-700.

EcoReference No.: 8058  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MLN).

Dary, C. C., Blancato, J. N., and Saleh, M. A. (2001). Chemomorphic Analysis of Malathion in Skin Layers of the Rat: Implications for the Use of Dermatopharmacokinetic Tape Stripping in Exposure Assessment to Pesticides. *Regul.Toxicol.Pharmacol.* 34: 234-248.

EcoReference No.: 89000  
Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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EcoReference No.: 7753  
Chemical of Concern: LNR,MLN,PQT; Habitat: A; Effect Codes: PHY,MOR; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 90769  
Chemical of Concern: MP,FNT,FNTH,MDT,AZ,PSM,MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(ALL CHEMS).

De Bruijn, J. and Hermens, J. (1991). Uptake and Elimination Kinetics of Organophosphorous Pesticides in the Guppy (Poecilia reticulata): Correlations with the Octanol/Water Partition Coefficient. *Environ.Toxicol.Chem.* 10: 791-804.

EcoReference No.: 3588  
Chemical of Concern: MLN,MP,FNT,FNTH; Habitat: A; Effect Codes: BCM,ACC; Code: NO ENDPOINT(ALL CHEMS).

De la Torre, A. I., Fernandez, C., Tarazona, J. V., and Munoz, M. J. (1995). Detection of Aroclor, DDT, Malathion and HCB Using Semipermeable Membranes as Comcentration Method. *Chemosphere* 31: 2727-2737.

EcoReference No.: 90678  
Chemical of Concern: DDT,MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

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EcoReference No.: 10640  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(MLN).

Degraeve, N., Chollet, M. C., and Moutschen, J. (1984). Evaluation of the Mutagenic Potential of Four Commercial Mixtures of Insecticides. *Food Chem.Toxicol.* 22: 683-687.

EcoReference No.: 90603; Habitat: T; Effect Codes: CEL,REP; Code: NO MIXTURE(ALL CHEMS).

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EcoReference No.: 87451  
Chemical of Concern: TCF,AZ,MLN,MP; Habitat: T; Effect Codes: MOR,CEL,REP; Code: NO ENDPOINT(AZ,MLN,MP),OK(TCF).

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EcoReference No.: 90708  
Chemical of Concern: 24DXY,MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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EcoReference No.: 40669  
Chemical of Concern: MLN,DMT,PRN,DZ,DLD,AND,DDT,FLAC,NCTN,PPHD,ETN,DEG; Habitat: T; Effect Codes: PHY; Code: NO ENDPOINT,CONTROL(ALL CHEMS).

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EcoReference No.: 35123  
Chemical of Concern: AND,BRSM,CHD,CBL,CYP,DDT,DCM,DEM,DZ,DDVP,DMT,EN,ES,FNT,FNV,HPT,HCCH,MLN,MXC,PRN,MP,PMR,PYN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 2160  
Chemical of Concern: MLN; Habitat: AT; Effect Codes: BEH,MOR,BCM; Code: NO CONTROL,NO ENDPOINT(MLN).

Desmarchelier, J. M., Banks, H. J., Williams, P., and Minett, W. (1977). Toxicity of Dichlorvos Vapour to Insects in Aerated and Non-Aerated Wheat and Comparison of the Vapour Action of Dichlorvos and Malathion. *J.Stored Prod.Res.* 13: 1-12.

EcoReference No.: 90682  
Chemical of Concern: DDVP; Habitat: T; Effect Codes: MOR,REP; Code: NO COC(MLN).

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EcoReference No.: 91495  
Chemical of Concern: DMT,PPHD,DDVP,ES,MLN,MP; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(DMT,MLN,MP).

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EcoReference No.: 88413  
Chemical of Concern: CBL,AND,EN,DLD,HPT,CHD,HCCH,MLN,TXP,DDT,DS,AZ,MXC; Habitat: T; Effect Codes: MOR,REP,ACC; Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 89464  
Chemical of Concern: CBL,OXD,TDC; Habitat: T; Effect Codes: POP; Code: NO COC(MLN),OK TARGET(OXD,TDC,CBL).

Dhanapakiam, P. and Premlatha, J. (1994). Histopathological Changes in the Kidney of Cyprinus carpio Exposed to Malathion and Sevin. *J.Environ.Biol.* 15: 283-287.

EcoReference No.: 13515  
Chemical of Concern: CBL,MLN; Habitat: A; Effect Codes: MOR,CEL; Code: LITE EVAL CODED(CBL),NO CONTROL,ENDPOINT(MLN).

Dhingra, S. and Sarup, P. (1992). Detection of Resistance in the Blister Beetle, Mylabris pustulata Thunb. to Various Insecticides Evaluated During the Last Quarter Century. *J.Entomol.Res.* 16: 231-235.

EcoReference No.: 75778  
Chemical of Concern: DMT,MLN,HCCH,PPHD,CBL,MP,LCYT,DCM,CYP,FPP,FNV,PYN,ES; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),TARGET(,MLN,CBL,MP).

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EcoReference No.: 35130  
Chemical of Concern: DDT,PCB,MLN,Hg; Habitat: T; Effect Codes: ACC,BCM,GRO,MOR; Code: NO ENDPOINT(MLN),OK(Hg).

Dikshit, A. K. (2000). Cypermethrin and Deltamethrin Concentration and Contamination in Pulses from Application to Jute Sacks . *Bull.Environ.Contam.Toxicol.* 65: 337-342 .

EcoReference No.: 89042  
Chemical of Concern: CYP,DM; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(CYP,DM),NO COC(MLN).

Dimond, J. B. (1967). Pesticides and Stream Insects. *Maine For.Serv.,Bull.No.23, Augusta, ME* 21 p.

EcoReference No.: 12466  
Chemical of Concern: DDT,MLN; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(MLN,DDT).

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Chemical of Concern: PNB,THM,PCP,PCB,MP,EPRN,MLN,MCPB,MCPA,CBL,AZ,AND,DDT,24DXY,HCCH,FNT,EN,ES,DMT,DLD; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(ALL CHEMS)//NO SPECIES(PCB).

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EcoReference No.: 12210  
Chemical of Concern: CBL,MLN,TBT,PCP,DLD; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL,PCP),NO CONTROL(MLN),OK(DLD,TBT).

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Chemical of Concern: MLN; Habitat: AT; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL,MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,CEL; Code: NO CONTROL,NO ENDPOINT(MLN).

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EcoReference No.: 90675  
Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BCM; Code: NO MIXTURE(MLN).

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Chemical of Concern: AND,CBL,DDT,DLD,ES,EN,HPT,MLN,PRN,DDVP,ETN; Habitat: T; Effect Codes: MOR,REP; Code: NO ENDPOINT(MLN,CBL).

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EcoReference No.: 45084  
Chemical of Concern: PHSL,DMT,MLN,MP,FNT,FNTH,DZ,EPRN,CPY,DDVP,PPHD; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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Chemical of Concern: ES,EN,PRN,MLN,DZ,HCCH,DDT,CBL; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL,GRO,PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BEH; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BEH; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DEM,CPY,PIRM,MLN,CYP; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(DEM,CPY,PIRM,MLN,CYP).

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Chemical of Concern: HCCH,MLN,MP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,HCCH,MP).

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Chemical of Concern: HCCH,MLN,MP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: HCCH,MLN,MP,DDT,AND,EN,HPT,MXC,DDVP; Habitat: A; Effect Codes: REP,MOR; Code: NO CONTROL,ENDPOINT(ALL CHEMS).

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EcoReference No.: 16605  
Chemical of Concern: MLN; Habitat: A; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: GRO,BCM,ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP,BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: CPY,MLN,MP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,CPY,MP).

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Chemical of Concern: PIRM,DDT,CBL,MLN,HPT,FNT,CuS; Habitat: A; Effect Codes: BCM,GRO,CEL,POP; Code : NO ENDPOINT(ALL CHEMS,TARGET-CBL).

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Chemical of Concern: PYN,PRN,MLN,DMT,DLD,DDVP,DZ,ATN,AZ,HCCH,CBL,DEM,DDT; Habitat: T; Effect Codes: PHY,MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: DDVP,MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MLN),NO MIXTURE(DDVP).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(MLN).

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Chemical of Concern: PRN,DZ,MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(DZ,PRN,MLN).

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EcoReference No.: 59846  
Chemical of Concern: 24DXY,CBL,MLN; Habitat: A; Effect Codes: BCM,BEH; Code: NO CONTROL(MLN,CBL,24DXY).

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EcoReference No.: 79339  
Chemical of Concern: PRT,CMZ,Zineb,MLN,PBZ; Habitat: T; Effect Codes: BCM; Code: OK(CMZ),NO MIXTURE(PRT,Zineb,MLN).

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EcoReference No.: 74540  
Chemical of Concern: DZ,DDT,CBL,CBF,MLN,CYR,FMP,FTT,PPM,PAQT; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBF),OK(DDT,CYR,FMP,FTT,PPM,PAQT),NO REVIEW(DZ,CBL,MLN).

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Chemical of Concern: CSF,MLN,DMT,EFV; Habitat: T; Effect Codes: PHY,POP,GRO; Code: OK(CSF),NO ENDPOINT(MLN,DMT,EFV).

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EcoReference No.: 7293  
Chemical of Concern: ADC,PPX,PRN,MLN,ETN,DDVP,MP,CBF,CBL; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL,CBF,ADC),NO CONTROL(MLN),OK(PPX,PRN,ETN,DDVP,MP).

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Chemical of Concern: DLD,DDT,MLN; Habitat: T; Effect Codes: BCM,GRO; Code: NO ENDPOINT(MLN,DDT,DLD)//OK Coded DJG//.

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Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL(MLN).

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EcoReference No.: 2820  
Chemical of Concern: FBM,PPHD,Zineb,DEM,TXP,DOD,PRO,ATZ,HPT,ETN,AND,Naled,PRT,MP,NaDC,Ziram,THM,Captan,MLN,DCF,AZ,HPT,MXC,DMT,DDT,TCF,CMPH,PRN,HCCH,DLD,EN,ES,MTAS; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(MTAS,AZ,PRO,ATZ,DMT,DOD,PRT),NO CONTROL(Naled,Captan,MLN),OK(ALL CHEMS).

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Chemical of Concern: ACP,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL,NO ENDPOINT(ACP,MLN).

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Chemical of Concern: RSM,DDT,PYT,CYP,ATN,MLN; Habitat: A; Effect Codes: MOR; Code: NO DURATION(RSM,ATN,PMR),NO CONTROL(DDT,MLN).

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Chemical of Concern: CBL,MLN,DDT; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL),NO CONTROL(MLN),OK(DDT).

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Chemical of Concern: TBC,TFN,ODZ,PPN; Habitat: A; Effect Codes: MOR; Code: NO COC(MLN),OK(TBC,TFN,ODZ,PPN).

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EcoReference No.: 36729  
Chemical of Concern: AND,CHD,DDT,DLD,ES,EN,HPT,HCCH,TXP,DZ,PRN,As,Cu,CBL,NAPH,PAH,PCP,CN,PQT,PPB,PPHD,Zineb,MRX,ABT,DMT,DS,FNT,PSM,Naled,OXD,THM,HCCH,MLN,MP,FPN,ETN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 88980  
Chemical of Concern: MLN,DDVP; Habitat: T; Effect Codes: CEL,ACC; Code: NO CONTROL(MLN,DDVP).

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Chemical of Concern: MLN,DDT,PRN; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 89315  
Chemical of Concern: PMR,DEF,PFF,SPS,CYP,FNV,MLN,AZ,MP,ACP,CBL,MOM; Habitat: T; Effect Codes: BCM,MOR; Code: LITE EVAL CODED(MOM,MP),OK(ALL CHEMS),NO MIXTURE(FNV,MLN,CYP,PMR).

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Chemical of Concern: TCF,PRN,Naled,MXC,MOM,MLN,FNF,DINO,AZ,BMY,Captan,CBL,CBF,DDT,DZ,DDVP,DMT,DCF,ES,PSM; Habitat: T; Effect Codes: REP; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: DMT,MLN; Habitat: T; Effect Codes: ACC,PHY; Code: NO ENDPOINT,CONTROL(DMT,MLN).

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EcoReference No.: 91611  
Chemical of Concern: PHSL,ES,MP,FNV,DMT,CPY,DCM,CYP,MLN; Habitat: T; Effect Codes: POP,REP; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: ACC,MOR,REP,CEL; Code: NO ENDPOINT(MLN).

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EcoReference No.: 90680; Habitat: T; Effect Codes: PHY; Code: NO COC(MLN).

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EcoReference No.: 17208  
Chemical of Concern: MLN,CPY,24DXY; Habitat: A; Effect Codes: REP,BCM; Code: NO ENDPOINT(MLN,CPY,24DXY).

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EcoReference No.: 7791  
Chemical of Concern: 24DXY,HCCH,MLN; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM,GRO; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC,PHY,BEH; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC,MOR; Code: NO CONTROL(MLN).

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EcoReference No.: 36915  
Chemical of Concern: MLN; Habitat: T; Effect Codes: CEL,BCM,PHY; Code: NO ENDPOINT(MLN).

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EcoReference No.: 11594  
Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: FNTH,PRN,MLN,ACP; Habitat: A; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(ACP),NO ENDPOINT(MLN,PRN,FNTH).

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Chemical of Concern: CPY,MLN,DLD,FNTH,TMP,DDT; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(TARGET-MLN).

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EcoReference No.: 10440  
Chemical of Concern: MLN,DZ,ABT,FNT,CPY,CBL; Habitat: A; Effect Codes: MOR,POP; Code: LITE EVAL CODED(DZ),OK(ABT,FNT,CPY),NO ENDPOINT(CBL,MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MLN).

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EcoReference No.: 5146  
Chemical of Concern: 24DXY,CBL,CPY,MLN,DDT,EN; Habitat: A; Effect Codes: BEH; Code: LITE EVAL CODED(CBL),OK(ALL CHEMS),NO ENDPOINT(MLN).

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EcoReference No.: 49989  
Chemical of Concern: TVP,PSM,TBO,FNF,AZ,ES,MDT,CPY,DMT,MXC,CHD,PHSL,PIRM,TCF,PRN,ACP,MLN,DDT,CBL,Naled,CBF,CPY,EN,MOM; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(MLN,Naled,CBF,CBL,AZ,TCF,DMT),OK(MDT,MOM,DDT,CPY).

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Chemical of Concern: DDT,TPN,FNTH,24OXY,PRN,PAQT,CBL,PYN,Zineb,CZE,FBM,PPX,PPX,MOM,ES,TBC,MLN,FE,SZ,NaPCP,Captan,AND,DZ,ETN,FLAC,PPN,FNT,RTN,EN; Habitat: A; Effect Codes: MOR; Code: NO FOREIGN,NO CONTROL,(ALL CHEMS).

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Chemical of Concern: MLN,MLO; Habitat: T; Effect Codes: BCM,MOR; Code: NO CONTROL(MLN,MLO).

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Chemical of Concern: MLN; Habitat: T; Code: NO MIXTURE.

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(MLN).

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EcoReference No.: 5675  
Chemical of Concern: NaBr,HCCH,MLN,DCB,PCP,DMT,PL; Habitat: A; Effect Codes: MOR,REP; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,CBL,DDT,HCCH,MXC,AND,CHD; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: FZFPB,MLN,IZT,IZP,IMB; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(FZFPB,MLN,IZT),NO IN VITRO(IZP,MB).

Hilsenhoff, W. L. (1959). The Evaluation of Insecticides for the Control of Tendipes plumosus (Linnaeus). *J.Econ.Entomol.* 52: 331-332.

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Chemical of Concern: AZ,DZ,MP,PRT,PAN,MLN; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(AZ,DZ,PRT),OK(PAN,MP),NO ENDPOINT(MLN).

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Chemical of Concern: MOM,CBL,PHSL,DZ,DEM,DMT,FNV,PMR,PPHD,MLN,PSM,AZ,MP,ES,MXC,FTTCl,DCF,CHX,PPG,FO,BMY,DOD,Maneb,THM,Captan,FBM,PAQT,GYP,SZ,DMZ,EPH,NAA,CaCl2; Habitat: T; Effect Codes: MOR,REP,POP; Code: NO ENDPOINT(ALL CHEMS),TARGET(MP).

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EcoReference No.: 37128  
Chemical of Concern: FNTH,MLN; Habitat: T; Effect Codes: ACC; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 72098  
Chemical of Concern: DDT,DLD,HCCH,CPY,RSM,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(DDT,DLD,HCCH,CPY,RSM,MLN).

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EcoReference No.: 69759  
Chemical of Concern: BRSM,RSM,MLN; Habitat: T; Effect Codes: BCM,PHY,CEL; Code: LITE EVAL CODED(RSM),NO MIXTURE(MLN).

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Chemical of Concern: RSM,GYP,MLN,TBC,PPX,BDC; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(RSM),OK(ALL CHEMS),NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DCNA,NSA,DLN,VCZ,MLN; Habitat: T; Effect Codes: PHY,BCM; Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 89136  
Chemical of Concern: DDT,DLD,CPY,FNT,MLN,TMP,PPX; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 18105  
Chemical of Concern: ZnP,TXP,STCH,EN,DDT,DLD,MLN,NaFA; Habitat: AT; Effect Codes: POP,MOR,ACC; Code: NO ENDPOINT(DDT,TXP,DLD,PRN,EN,MLN),CONTROL(DDT,TXP,STCH,ZnP,NaFA,PRN,EN),CONC(DDD).

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Chemical of Concern: MLN,PPB; Habitat: T; Effect Codes: BCM; Code: OK(PPB),NO MIXTURE(MLN).

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EcoReference No.: 37229; Habitat: T; Effect Codes: BCM,ACC,CEL; Code: NO COC(MLN).

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Chemical of Concern: PQT,MLN; Habitat: T; Effect Codes: BCM,GRO; Code: OK(PQT),NO IN VITRO(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM,CEL; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN,ES; Habitat: A; Effect Codes: REP,BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 89591  
Chemical of Concern: PPHD,MLN,ENV,DMT,OXD; Habitat: T; Effect Codes: POP; Code: OK(PPHD,FNV,DMT),NO ENDPOINT(TARGET-MLN,OXD).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,ENDPOINT(MLN).

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Chemical of Concern: DDT,MLN,CBL; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL),NO CONTROL(MLN,DDT).

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Chemical of Concern: MLN,FNV,ES; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(FNV,ES).

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Chemical of Concern: DS,MLN,PRN,DDT; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,PRN,MP,CBL; Habitat: T; Effect Codes: MOR; Code: OK(CBL),NO CONTROL(MLN,PRN,MP).

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EcoReference No.: 37328  
Chemical of Concern: PPG,DEM,TCF,Naled,ACP,AZ,CBL,CBF,DDT,CYP,DZ,ES,EN,MLN,PRN,TDC,DMT,AND; Habitat: T; Effect Codes: MOR,BEH; Code: LITE EVAL CODED(Naled),NO CONTROL(ACP,AZ,CBL,CBF,CYP,DZ,MLN,DMT).

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EcoReference No.: 5172  
Chemical of Concern: ABT,MLN,FNTH,MP,CPY; Habitat: A; Effect Codes: MOR,BEH; Code: OK(CPY,FNTH),NO ENDPOINT(ABT,MLN,MP).

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EcoReference No.: 5149  
Chemical of Concern: MP,ABT,MLN,FNTH,CPY; Habitat: A; Effect Codes: BEH,ACC; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: PCZ,MLN,CYP,DMT,DZ; Habitat: T; Effect Codes: BCM; Code: NO CONTROL(ALL CHEMS),MIXTURE(PCZ).

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Chemical of Concern: CPY,DMT,PCZ,DZ,MLN; Habitat: T; Effect Codes: BCM; Code: NO MIXTURE(PCZ),NO ENDPOINT(CPY,DZ,PCZ,DMT,MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM,GRO; Code: NO ENDPOINT(MLN).

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EcoReference No.: 74883  
Chemical of Concern: DMT,DDVP,FNT,PPHD,FNTH,TCF,PRIM,DZ,PRT,DEM,AZ,DPY,PSM,PHSL,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: 24DXY,ABT,ACL,ADC,AMTL,AMTR,AND,ASM,ATN,ATZ,AZ,BFL,BMC,BMN,BS,BTY,Captan,CBL,CCA,CHD,CMPH,CPP,CPY,CQTC,CTHM,Cu,CuFRA,DBN,DCB,DCNA,DDD,DDT,DDVP,DEM,DINO,DLD,DMB,DMT,DOD,DPP1,DQTBr,DS,DU,DZ,DZM,EDT,EN,EP,EPTC,ES,ETN,FLAC,FMU,FNF,FNT,FNTH,Folpet,HCCH,HPT,LNR,Maneb,MCB,MCPA,MCPB,MCPP1MDT,MLH,MLN,MLT,MRX,MTM,MVP,MXC,Naled,NPM,PB,PCH,PCL,PCP,PEB,PHMD,PHSL,PMT,PPHD,PPN,PPX,PPZ,PQT,PRN,PRO,PRT,PYN,PYZ,RTN,SFT,SID,SZ,TCF,TFN,THM,TRB,TRL,TXP,VNT,Zineb; Habitat: T; Effect Codes: MOR; Code: NO PUBL AS(24DXY,ABT,ACL,AMTL,AMTR,ASM,ATN,AZ,BFL,BMC,BMN,BS,BTY,CCA,CMPH,CPP,CPY,CQTC,CTHM,DBN,DCB,DCNA,DDT,DINO,DOD,DPP1,DQTBr,DU,DZM,EP,EPTC,ES,FMU,FNF,FNT,Folpet,HCCH,HPT,LNR,MCB,MCPP1,MLT,MP,MRX,MTM,MXC,Naled,NPM,Pb,PCH,PCL,PEB,PHSL,PPN,PPZ,PQT,PRO,PYN,PYZ,RTN,RYA,SFT,SID,TFN,THM,TRL,VNT),NO CONTROL,DURATION(ALL CHEMS).

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Chemical of Concern: 24DXY,DMT,HCCH,MLN,DOD,Cu,Zn,MZB,ANT,PHE; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(24DXY,DMT,HCCH,MLN,DOD,Cu,Zn,MZB).

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EcoReference No.: 4945  
Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY,MOR; Code: NO ENDPOINT,CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MXC,MLN,HCCH,DS,DLD,DZ,CBL,AZ,AND,ATZ,ACR,DCPA,DMB,LNR,NPM,PCH,TFN,VNT; Habitat: T; Effect Codes: PHY,POP,GRO; Code: OK(DS,CBL),NO ENDPOINT(ALL CHEMS)//No Media:Agar, No OM,pH,ERE.

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Chemical of Concern: MLN,FNT,DZ; Habitat: A; Effect Codes: MOR,ACC,PHY; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN,FNT; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(FNT,TARGET-MLN).

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Chemical of Concern: DDVP,DZ,AZ,MLN,PRN,DMT,Naled,PPHD,ES,HCCH; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(DZ,AZ,MLN,DMT,Naled).

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Chemical of Concern: CYP,PYT,PMR,FYT,PSM,MXC,MLN,FNTH,DDVP,DZ,CMPH; Habitat: T; Effect Codes: PHY; Code: NO ENDPOINT,CONTROL(ALL CHEMS).

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EcoReference No.: 90692  
Chemical of Concern: PRN,DZ,MLN,CBL,AND,CHD,DDT,DLD,EN,MXC,TXP; Habitat: T; Effect Codes: MOR; Code: NO CONTROL,MIXTURE(DZ,MLN,CBL).

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Chemical of Concern: 24DXY,DZ,CPY,AZ,PRN,MXC,EDT,HPT,DDT,DLD,HCCH,CHD,SZ,MLN,As; Habitat: A; Effect Codes: ACC; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 13301  
Chemical of Concern: CBL,MLN,ES; Habitat: A; Effect Codes: MOR,CEL; Code: LITE EVAL CODED(CBL),NO CONTROL(MLN,ES).

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Chemical of Concern: CBL,MLN,ES; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(CBL,ES,MLN).

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Chemical of Concern: CBL,MLN,ES; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(CBL,MLN,ES).

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Chemical of Concern: ES,MLN,CBL; Habitat: A; Effect Codes: CEL,REP; Code: NO ENDPOINT(ES,MLN,CBL).

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EcoReference No.: 3426  
Chemical of Concern: MLN,ES,CBL; Habitat: A; Effect Codes: MOR,GRO,PHY; Code: NO ENDPOINT(MLN,ES,CBL).

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Chemical of Concern: ATZ,EFV,MLN; Habitat: A; Effect Codes: CEL,GRO; Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 2890  
Chemical of Concern: CBL,DZ,CHD,HCCH,MLN,CuS,DDT,DLD,NaPCP; Habitat: A; Effect Codes: MOR,PHY; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: DZ,MLN,PPB,FNT,DDVP; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,GRO,REP,PHY,POP,BEH; Code: NO CONTROL(MLN).

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Chemical of Concern: TVP,MLO,MLN,MPO,MP,FNT; Habitat: T; Effect Codes: MOR,ACC,BCM; Code: NO CONTROL(ALL CHEMS,TARGET-MLN,MP).

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Chemical of Concern: CBL,CPY,HCCH,MLN,MP,Naled,ABT,FNTH,EN,ES,DDT,HPT,MXC,TXP,AND,CHD,PRN,DLD; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 35309  
Chemical of Concern: FNT,DDVP,MLN,MVP,PRN,DMT; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(DMT),OK(FNT,DDVP,MVP,PRN),OK TARGET(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR; Code: NO CONC(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO ENDPOINT,CONTROL(MLN).

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Chemical of Concern: MLN,DDVP; Habitat: T; Effect Codes: CEL; Code: NO ENDPOINT(MLN,DDVP).

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Chemical of Concern: MLN,MXC,PPX; Habitat: T; Effect Codes: BCM,BEH,MOR; Code: NO ENDPOINT(MLN,MXC,PPX).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 5036  
Chemical of Concern: CdCl,PbN,HgCl2,AMSV,PL,NAPH,EN,Urea,DU,MLN,CuS; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MPO,MLN,HCCH; Habitat: T; Effect Codes: CEL; Code: NO ENDPOINT(MLN,MPO,HCCH).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,REP; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 6548  
Chemical of Concern: DS,DZ,HCCH,CBL,DLD,DMT,DDT,FNT,MLN,Captan,ALSV; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 12629  
Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: HCCH,DDT,DMT,CBL,ES,PRN,PPHD,DDVP,TCF,TXP,MLN; Habitat: T; Effect Codes: REP; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: PbAC; Habitat: T; Effect Codes: GRO,MOR,REP,PHY; Code: NO COC(MLN),OK(PbAC)//OK Coded DSG//.

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EcoReference No.: 2870  
Chemical of Concern: MLN,FNTH,ABT; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN,MP,OML,DCTP; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT,NO CONTROL(MLN,MP).

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EcoReference No.: 90747  
Chemical of Concern: PFF,MLN,PMR; Habitat: AT; Effect Codes: MOR; Code: NO MIXTURE(MLN),NO ENDPOINT,NO CONTROL(PMR).

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Chemical of Concern: CBL,MLN; Habitat: T; Effect Codes: PHY,ACC,BCM; Code: NO CONTROL,ENDPOINT(CBL,MLN).

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Chemical of Concern: MDT,AZ,PSM,MLN; Habitat: A; Effect Codes: MOR,ACC,GRO,BCM; Code: NO SPECIES(AZ,MDT,PSM,MLN).

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Chemical of Concern: PPB,MLN,FNP,HFP,CLFP; Habitat: T; Effect Codes: GRO; Code: OK(HFP,CLFP),OK TARGET(FNP),NO MIXTURE(PPB,MLN).

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Chemical of Concern: MTPN,TMP,FNTH,CPY,MLN,DFZ; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN,Zn; Habitat: A; Effect Codes: MOR,REP,GRO; Code: NO CONTROL(MLN).

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Chemical of Concern: 24DXY,MLN,CuS,NCTN,PNB,As; Habitat: A; Effect Codes: PHY,MOR; Code: NO CONTROL(ALL CHEMS),LITE EVAL CODED(OW-TRV-Cu).

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EcoReference No.: 16756  
Chemical of Concern: 24DXY,HCCH,MLN,WFN,CF,CuS,PAQT,PL,SFL,LPS,PCP,CTC,BA,Hg,Ti,NCTN; Habitat: A; Effect Codes: PHY,MOR,CEL; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 15898  
Chemical of Concern: AZ,Captan,CBL,CMPH,HCCH,MLN,Naled,SZ,PNB,ACL,WFN,FUR,DPC,RTN,NaN3,PCP,NaPCP,AsAC,ACL,ATZ,Se,Zn,DZ,PYPG; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL,ENDPOINT(AZ,Captan,CBL,CMPH,HCCH,MLN,Naled,SZ,PNB,ACL,WFN,FUR,DPC,RTN,NaN3,PCP,NaPCP,AsAC,ACL,ATZ,Se,Zn,DZ,PYPG).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: DDT,PRN,TXP,CPY,DLD,AND,HPT,HCCH,CHD,MXT,ABT,ES,Naled,CBL,ATM,ETN,AZ,PRT,DDVP,PSM,DZ,MLN,CTN,EN; Habitat: A; Effect Codes: NOC,GRO,MOR; Code: LITE EVAL CODED(Naled),NO ENDPOINT,CONTROL(MLN).

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EcoReference No.: 10347  
Chemical of Concern: DZ,HCCH,MLN,EN,HPT,DDT,CHD,DLD,TXP,AND; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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EcoReference No.: 10346  
Chemical of Concern: DZ,HCCH,MLN,DLD,CHD; Habitat: A; Effect Codes: ACC,MOR; Code: NO FOREIGN//NO ENDPOINT(MLN).

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Chemical of Concern: DZ,HCCH,MLN,TXP; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MLN,DZ,TXP,HCCH).

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Chemical of Concern: AZ,CPY,DU,HCCH,MLN,Naled,TFN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(Naled,MLN).

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Chemical of Concern: AZ,CBL,HCCH,MLN,MP,TXP; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(AZ,CBL),NO CONTROL(MLN,MP,TXP,HCCH).

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EcoReference No.: 15148  
Chemical of Concern: PNB,24DXY,Captan,CBL,DOD,HCCH,MLN,NYP,CST,WFN,FUR,Cu,CuS,NaN3,CuCl,PCP,ACL,ATM,Se,DBAC,Zn,DZ,Pb,DCB,IAA; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL,NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: ATZ,HCCH,MLN,ADC,AMTR; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(ATZ,ADC,MLN,HCCH,AMTR).

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Chemical of Concern: PPX,TMP,CPY,CBL,MLN; Habitat: A; Effect Codes: GRO; Code: LITE EVAL CODED(CBL),NO ENDPOINT(MLN,PPX,TMP,CPY).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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EcoReference No.: 67219  
Chemical of Concern: TDF,PPHD,DMT,ES,DDVP,FNV,CYP,DM,MP,FNTH,MLN,PHSL,CBL,FVL,CPY,AZD,FSTAI,Captan,Ziram,MZB,DINO,Cu,CTN,DCF; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),TARGET(MLN,CBL,MP).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY,BEH,REP; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: Cl,TFM,CBL,PMR,ATM,MLN,CN,CuS,RTN,Cu; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),LITE EVAL CODED(OW-TRV-Cu).

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Chemical of Concern: Mn,MLN,Naled,ATM; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(Mn,MLN,Naled,ATM).

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Chemical of Concern: 24DXY,Captan,DDT,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(24DXY,Captan,DDT,MLN).

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Chemical of Concern: DZ,HCCH,MLN,DDT,HPT,DDVP,DLD; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: ES,HCCH,FVL,CYP,CYH,ACP,CPY,DZ,MLN,MTM,Naled,OXD,TCF,MOM,OML,TDC,BFT,CYF,PMR; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: AND,CHD,DDT,DLD,ES,EN,HPT,TXP,DZ,CPY,PRN,CBL,ACL,ATZ,Cu,EDT,SZ,As,MLN,Captan,Naled; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(AND,CHD,DDT,DLD,ES,EN,HPT,TXP,DZ,CPY,PRN,CBL,ACL,ATZ,Cu,EDT,SZ,As,MLN,Captan,Naled).

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EcoReference No.: 6797  
Chemical of Concern: EDT,RSM,SZ,24DXY,ACP,ACR,ADC,ATM,ATN,ATZ,AZ,BS,CaPS,Captan,CBF,CBL,CMPH,CQTC,CPY,CuS,DBN,DFZ,DMB,DMT,DOD,DPDP,DS,DU,DZ,FO,GYP,HCCH,HXZ,IGS,LNR,MBZ,MCPB,MDT,MLN,MLT,MOM,MP,MTL,NaN3,Naled,OYZ,PCP,PEB,PAQT,PRT,PSM,Folpet,PYN,CYT,DMM,EFS,NAA,NTP,PMR,PPB,TFN,WFN,RSM,RTN,ALSV,Se,DBAC,Zn,As,MTPN,DCB,MTAS,OXD; Habitat: A; Effect Codes: MOR,PHY; Code: LITE EVAL CODED(MTAS,MTPN,DCB,DZ,IGS,ATZ,MTL,MLT,CBF,ADC,MOM,PPB,SZ,DMT,WFN,RTN,CuS, DOD,NaN3,DMB,RSM,CaPS,MCPB, NaPCP,PCP,AMSV,ALSV,PRT,ATM,CQTC,ATN,DBAC),OK(ALL CHEMS),NO CONTROL(Naled,BS,OXD,Captan,MLN).

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EcoReference No.: 88040  
Chemical of Concern: TDC,CBF,MLN,CBL,CYF; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS,TARGET-CBL,MLN,TDC).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BEH; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DLD,MLN; Habitat: T; Effect Codes: BEH,MOR; Code: NO ENDPOINT(MLN,DLD).

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EcoReference No.: 89355; Habitat: T; Effect Codes: POP; Code: NO COC(MLN).

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EcoReference No.: 37932  
Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL,ENDPOINT,MIXTURE(MLN).

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Chemical of Concern: DCTP,PPHD,DDT,MLN,DMT,DLD; Habitat: T; Effect Codes: MOR; Code: NO MIXTURE(MLN,DMT).

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Chemical of Concern: AZ,DMT,DZ,MLN,MP,FNTH,EPRN,DDVP,FNT; Habitat: A; Effect Codes: MOR; Code: NO DURATION(ALL CHEMS),NO CONTROL(MLN).

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EcoReference No.: 66430  
Chemical of Concern: TCF,FNT,DMT,MP,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL,NO ENDPOINT(MLN),NO REVIEW(MP,DMT,FNT,TCP).

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EcoReference No.: 13776  
Chemical of Concern: MLN,CPY,FNTH,FNT,ABT,PRN; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: PPB,EFV,MLN; Habitat: T; Effect Codes: MOR; Code: OK(EFV),NO CONC(MLN),MIXTURE(PPB).

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Chemical of Concern: MLN,FNTH; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,FNTH).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL(MLN).

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Chemical of Concern: CBL,DZ,HCCH,MLN,PPB,PYN,RTN,ATN,AND,DDT,DLD,MXC; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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Chemical of Concern: DMT,CYP,DDT,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,HCCH; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN,HCCH).

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Chemical of Concern: MTAS,Nabam,MLN,PRN; Habitat: A; Effect Codes: MOR,POP,CEL,PHY; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: CBL,MLN; Habitat: A; Effect Codes: BEH; Code: NO ENDPOINT(CBL,MLN).

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EcoReference No.: 38043  
Chemical of Concern: DCTP,DZ,CBL,PIRM,PPHD,MTM,PRN,PRT,MP,CMPH,MVP,MLN,DMT,DDVP; Habitat: T; Effect Codes: BCM,GRO; Code: LITE EVAL CODED(DZ,CBL),NO ENDPOINT(DCTP,PIRM,PPHD,MTM,PRN,PRT,MP,CMPH,MVP,MLN,DMT,DDVP).

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EcoReference No.: 883  
Chemical of Concern: 24DXY,MLN; Habitat: A; Effect Codes: MOR,BEH,POP,GRO,REP; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: PRN,FNTH,DLD,AND,AZ,EN,PCB,DDT,PRT,MLN,ETN,DDVP; Habitat: A; Effect Codes: MOR,POP; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 2156  
Chemical of Concern: MRX,DCTP,DMT,PPHD,MLN,MP,CBL,EN,DDT,Naled; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL,DMT),NO CONTROL(MRX,DCTP,DMT,PPHD,MLN,MP,CBL,EN,DDT,Naled),NO ENDPOINT(MLN).

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Chemical of Concern: EFX,DDVP,ACP,FNV,MLN,MOM; Habitat: T; Effect Codes: MOR,POP; Code: NO COC(Captan),NO ENDPOINT(DDVP,MOM,TARGET-EFX,ACP,FNV),NO MIXTURE,TARGET(MLN).

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Chemical of Concern: AZ,MLO,PRN; Habitat: AT; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(AZ),OK(PRN),NO ENDPOINT(MLO),NO COC(MLN).

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Chemical of Concern: AZM,CPY,DZ,MLN,PIRM; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: CBL,DZ,MLN; Habitat: A; Effect Codes: PHY,POP; Code: LITE EVAL CODED(CBL),NO ENDPOINT(DZ,MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: GRO; Code: NO ENDPOINT(MLN).

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Chemical of Concern: CBF,ES,MLN,PRT,PHSL; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,ENDPOINT(ALL CHEMS).

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Chemical of Concern: AZ,CBL,CPY,HCCH,MLN,MP,DZ; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL,DZ),OK(ALL CHEMS),NO ENDPOINT(MLN).

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Chemical of Concern: AZ,CBL,CPY,HCCH,MLN,MP; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(AZ),LITE EVAL CODED(CBL),OK(HCCH,MP,CPY),NO CONTROL(MLN).

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Chemical of Concern: MLN,CuS,ES; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CuS),OK(ES),NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL,REP; Code: NO ENDPOINT(MLN).

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Chemical of Concern: EDT,AZ,DS,MLN,RTN,EN,DLD,PRN,DDT,AND,Cu; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(RTN,OW-TRV-Cu),OK(ALL CHEMS),NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 11726  
Chemical of Concern: MLN,PMR,ES; Habitat: A; Effect Codes: REP; Code: NO ENDPOINT(MLN,PMR,ES).

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EcoReference No.: 20030  
Chemical of Concern: MLN,CuS,NaPCP,Cr,Cd; Habitat: A; Effect Codes: MOR,GRO; Code: LITE EVAL CODED(CuS,NaPCP),NO ENDPOINT(MLN),OK(Cr,Cd).

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Chemical of Concern: MTM,MLN,ACP; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MTM,MLN,ACP).

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Chemical of Concern: DDVP,MLN,PHSL; Habitat: A; Code: NO FOREIGN,NO CONTROL(DDVP,MLN,PHSL).

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Chemical of Concern: MLN,NaPCP,Ag; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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EcoReference No.: 10258  
Chemical of Concern: 3CE,AC,AMTL,AMTR,AND,As,ATZ,BMC,BS,Captan,CBL,CPA,CPY,CTN,Cu,DBN,DCPA,DDT,DDVP,DLD,DMB,DMT,DPA,DSMA,DU,DZ,EDB,EDC,EN,EPTC,ES,ETN,Fe,FLAC,FML,FNT,FNTH,HCCH,Hg,HPT,LNR,MCAP,MCPB,MCPP1,MDT,MLN,MOM,MP,MTAS,NALED,Ni,NTCN,OPHP,Pb,PCB,PCP,PCZ,PEB,PHMD,PHSL,PHTH,PMT,PNB,PPX,PPZ,PRN,PSM,PYN,SFL,SID,STREP,SZ,TBC,TFN,THM,TPE,TPH,TPM,TRN,Zn; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS)//NO RESIDUE.

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EcoReference No.: 15570  
Chemical of Concern: PSM,ETN,DZ,NaPCP,FNT,MLN,CBL; Habitat: A; Effect Codes: MOR; Code: NO FOREIGN,NO CONTROL(ALL CHEMS).

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EcoReference No.: 6954  
Chemical of Concern: ACP,ACR,ATZ,BMC,BT,Captan,CPY,CTN,Cu,CuOH,CuS,DMT,DU,DZ,Folpet,HCCH,LNR,MAL,MDT,MLN,MOM,PCP,PEB,PHMD,PMT,PNB,PPG,PQT,PSM,QOC,TBC,TFN,RTN,CuCl,PPZ,Zn,Ni,As,DCB; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,BMC,CTN,QOC,Captan,Folpet,ATZ),OK(ALL CHEMS).

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EcoReference No.: 15192  
Chemical of Concern: ATZ,Captan,CBL,CTN,DBN,DMB,DMT,DU,DZ,HCCH,LNR,MLN,MP,PMT,PSM,SZ,24DXY,MCPB,NaPCP,PPZ,ZIRAM,PRN,ETN,DDT,DLD,MCPA; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,Captan,CTN),OK(ALL CHEMS).

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EcoReference No.: 2682  
Chemical of Concern: DDT,HCCH,PRN,MCPA,MLN,SZ,Captan,Ziram,24DXY,PPN,ATZ,NaPCP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 5817  
Chemical of Concern: AZM,HCCH,DZ,MLN,ETN,AZ,MOM; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MOM,MLN),NO CONTROL(DZ,BRSM,RSM,AZ).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: REP,MOR,GRO,PHY,CEL,BEH; Code: NO CONTROL(MLN).

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EcoReference No.: 9164  
Chemical of Concern: CuS,MLN; Habitat: A; Effect Codes: BEH,GRO,MOR,PHY; Code: NO CONTROL,ENDPOINT(MLN,CuS).

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EcoReference No.: 88968  
Chemical of Concern: MLO,DZ,CPY,MTM; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(DZ,MLO),NO REVIEW(CPY,MTM).

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EcoReference No.: 89032  
Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 89482  
Chemical of Concern: MLN,ES; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN,ES).

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EcoReference No.: 16056  
Chemical of Concern: FNT,ANZ,DDVP,DLD,24DXY,CBF,CPY,CTN,DMT,DZ,HCCH,MLN,MLT,MP,MTM,PMT,TBC,DM,EFV,BPZ,PPN,OMT,PCH,FPP,NaPCP,CaPS,OMT,Zn,DDT,Zineb,PPHD,FNV,CYH,BTC,TDF,Ni; Habitat: A; Effect Codes: MOR; Code: NO FOREIGN,NO CONTROL(ALL CHEMS).

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EcoReference No.: 11544  
Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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EcoReference No.: 11108  
Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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EcoReference No.: 13226  
Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

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EcoReference No.: 89761  
Chemical of Concern: 24DXY,DLD,MLN,MP,ES; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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EcoReference No.: 89596  
Chemical of Concern: DZ,DDVP,MLN,SFT; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(DZ,DDVP,MLN,SFT).

Paris, D. F., Lewis, D. L., Barnett, J. T. Jr., and Baughman, G. L. (1975). Microbial Degradation and Accumulation of Pesticides in Aquatic Systems. *EPA-660/3-75-007, U.S.EPA, Corvallis, OR* 46 p.

EcoReference No.: 78294  
Chemical of Concern: ATZ,PRN,DZ,Captan,CBL,MLN,24DXY,TXP,MXC; Habitat: A; Effect Codes: GRO; Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 88997  
Chemical of Concern: PRN,MLN,DZ; Habitat: A; Effect Codes: PHY,BCM; Code: NO CONTROL(PRN,MLN,DZ).

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EcoReference No.: 40526  
Chemical of Concern: PCB,Cd,MLN,CuS; Habitat: T; Effect Codes: POP; Code: LITE EVAL CODED(CuS),NO CONTROL(MLN),OK(DZ,Cd)//No pH=3.9 (EcoSSL)//NO SPECIES(PCB)//.

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Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: HCCH,MLN,Captan; Habitat: T; Effect Codes: REP,PHY; Code: LITE EVAL CODED(Captan),NO MIXTURE(MLN).

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Chemical of Concern: MLN,CuCl; Habitat: A; Effect Codes: BCM; Code: LITE EVAL CODED(CuCl),NO ENDPOINT(MLN).

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EcoReference No.: 86929  
Chemical of Concern: ADC,CBF,DDVP,DMT,MLN,TVP,PRN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(ADC).

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EcoReference No.: 157  
Chemical of Concern: MLN,DDVP,FNT,TCF; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 158  
Chemical of Concern: MLN,RTN,FNT,DDVP,DLD; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(RTN),OK(ALL CHEMS),NO CONTROL(MLN).

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EcoReference No.: 5160  
Chemical of Concern: Zn,AZ,CBL,CPY,HCCH,HPT,NaPCP,FNT,MLN,Naled,CuS; Habitat: A; Effect Codes: MOR,BEH; Code: NO ENDPOINT(Zn,AZ,CBL,CPY,HCCH,HPT,NaPCP,FNT,MLN,Naled,CuS).

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Chemical of Concern: MP,MLN,AZ,PRN,DZ,DEM; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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EcoReference No.: 91058  
Chemical of Concern: As,DLD,MOM,MLN,FNV; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(As,DLD,MOM,MLN,FNV).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: CEL,REP; Code: NO ENDPOINT(MLN).

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EcoReference No.: 89354  
Chemical of Concern: MLN,MLO; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,MLO).

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EcoReference No.: 43504  
Chemical of Concern: SZ,BMC,CBL,DU,Captan,MLN,TFN,GYP,DCPA,BMY,MANEB; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT,CONTROL(ALL CHEMS).

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EcoReference No.: 2756  
Chemical of Concern: 24DXY,MLN,AND,DDT,PRN,MXC; Habitat: A; Effect Codes: POP,GRO; Code: NO ENDPOINT(ALL CHEMS).

Portmann, J. E. (1972). Results of Acute Toxicity Tests with Marine Organisms, Using a Standard Method. *In: M.Ruivo (Ed.), Marine Pollution and Sea Life, FAO, Rome, Italy / Fishing News (Books) Ltd., London, England* 212-217 (Author Communication Used).

EcoReference No.: 9258  
Chemical of Concern: Maneb,Zn,NYP,Fe,Cr,Cu,ACY,MLN,FML,SZ,DDT,PL,PRN,MCRE,HCCH,ATZ,DLD,PAQT,AZ,Hg,DQT,Br,ES,Ni; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(AZ,ATZ,SZ,Cu,Cr),OK(ALL CHEMS),NO CONTROL(MLN,Maneb).

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EcoReference No.: 906  
Chemical of Concern: SZ,24DXY,ATZ,AZ,DBN,DMT,MLN,CuS,CrAC,SFL,HgCl2,NYP,Cd,Pb,Maneb,DDT,FML,PRN,EPRN,DLD,DPDP,PAQT,PL,ACY,ES,HCCH,MCRE,Tl; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(AZ,ATZ,SZ,DMT,CuS,CrAC),OK(ALL CHEMS),NO CONTROL(MLN,MZB,Maneb).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM,PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DDT,CBL,EN,MLN; Habitat: A; Effect Codes: PHY,MOR,GRO; Code: LITE EVAL CODED(CBL),NO CONTROL(MLN),OK(DDT,EN).

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EcoReference No.: 88965  
Chemical of Concern: PCP,DDT,MXC,TBTO,MLN,Captan; Habitat: A; Effect Codes: POP; Code: NO CONTROL(ALL CHEMS,TARGET-PCP,Captan).

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EcoReference No.: 3018  
Chemical of Concern: MLN,DDT; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN,DDT).

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EcoReference No.: 69605  
Chemical of Concern: MLN,TKY,DFP,CSF,SZ,SXD,PPB,ABT; Habitat: T; Effect Codes: MOR,BCM,PHY; Code: LITE EVAL CODED(SZ),OK(ALL CHEMS),NO MIXTURE(MLN).

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Chemical of Concern: MTM,DZ,MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MTM,DZ,MLN).

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EcoReference No.: 75191  
Chemical of Concern: PRN,PPX,CPY,MLN,ACP; Habitat: A; Effect Codes: BCM,PHY; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(TARGET-MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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EcoReference No.: 89215  
Chemical of Concern: MP,MLN,ES,DMT; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: DDT,HCCH,ES,MP,MLN,CBL; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 3029  
Chemical of Concern: MLN,MP,PIRM,DDVP,FNT; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(MP,PIRM,DDVP,FNT).

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Chemical of Concern: PIRM; Habitat: T; Effect Codes: CEL,REP; Code: NO COC(MLN),NO ENDPOINT(PIRM).

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Chemical of Concern: MLN,NH; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: ES,MLN,CBL; Habitat: A; Effect Codes: BEH,GRO; Code: NO ENDPOINT(CBL,MLN,ES).

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Chemical of Concern: ES,MLN,CBL; Habitat: A; Effect Codes: BEH,PHY; Code: NO ENDPOINT(ES,MLN,CBL).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN,HgCl,DDT; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN,DDT,Hg; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: ACL,PCP,ACY,DNT,MLN,HgCl2, 24DP,4NP,2CP,PL,ACE,Se ; Habitat: A; Effect Codes: PHY,MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM,CEL,BEH; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN,MP; Habitat: T; Effect Codes: CEL; Code: NO ENDPOINT(MLN,MP).

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EcoReference No.: 89072  
Chemical of Concern: MLO,MLN,CBL,PRN; Habitat: T; Effect Codes: BCM,PHY; Code: NO ENDPOINT(ALL CHEMS),NO CONTROL,IN VITRO(MLO,CBL,PRN),MIXTURE(MLN).

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Chemical of Concern: MLN,DM; Habitat: A; Effect Codes: CEL,MOR; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,PHY,BCM; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: DDT.MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(DDT).

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Chemical of Concern: CBL,MLN; Habitat: AT; Effect Codes: ACC,MOR; Code: NO CONTROL,NO ENDPOINT(MLN,CBL).

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Chemical of Concern: TMP,MLN,FNTH,FNT,CPY; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 91102  
Chemical of Concern: FNTH,FNT,CPY,MLN,TMP; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(FNTH,FNT,CPY,MLN),OK(TMP).

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EcoReference No.: 14969  
Chemical of Concern: MP,DDT,PRN,HCCH,DMT,DLD,DDVP,CBL,MLN,SMT,AND,PPH,OXD; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY,BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DLD,TCF,MXC,HCCH,MLN,CBL,DZ,CPY,DDT,FNTH,DDVP,PPX,FNT,TMP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL,BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: FNTH,DDT,MLN,Naled; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),TARGET(Naled).

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Chemical of Concern: CPY,DZ,HCCH,MLN,ATN,ABT,FNT,DDVP,FNTH,DDT; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL,ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLO,DMT,MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT,NO CONTROL(MLO,DMT,MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM,ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: CBF,MLN; Habitat: A; Effect Codes: CEL,ACC,PHY; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: GRO,PHY,BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN,MP; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Code: NO CONTROL(MLN) .

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Chemical of Concern: CPY,PPHD,FNTH,MP,MLN,DDVP,CBL,DMT; Habitat: T; Effect Codes: POP,MOR; Code: NO ENDPOINT(CPY,MP,MLN,CBL,DMT).

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Chemical of Concern: DDT,CBL,MLN,Captan; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(DDT,Captan,TARGET-CBL,MLN).

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Chemical of Concern: MLN,CBL; Habitat: T; Effect Codes: MOR,CEL,BCM; Code: NO MIXTURE(MLN,CBL).

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EcoReference No.: 885  
Chemical of Concern: SZ,EDT,24DXY,AZ,CBL,CMPH,CPY,DBN,DMB,DMT,DS,DU,DZ,HCCH,MLN,MLT,Naled,PAQT,PRT,TFN,RTN,NaN3,ATN,OXD,Captan; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL,AZ,DZ,MLT,SZ,DMT,RTN,NaN3,DMB,PRT,ATN),NO CONTROL(MLN,Naled,OXD,Captan).

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Chemical of Concern: 24DXY,AZ,CBL,CPY,DBN,DMT,DS,DU,DZ,HCCH,MLN,MLT,Naled,PYN,TFN,RTN,As,NaN3,ATN,OXD,Captan; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(Naled,OXD,Captan,MLN),LITE EVAL CODED(CBL,DZ,MLT,DMT,RTN,NaN3,ATN),OK(ALL CHEMS).

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EcoReference No.: 888  
Chemical of Concern: 24DXY,CBL,DBN,DU,DZ,HCCH,MLN,Naled,CYT,PYN,TFN,RTN,As; Habitat: A; Effect Codes: PHY; Code: NO CONTROL(24DXY,CBL,DBN,DU,DZ,HCCH,MLN,Naled,CYT,PYN,TFN,RTN,As).

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EcoReference No.: 89882  
Chemical of Concern: PPN,DMB,24DXY,MZB,Zineb,Maneb,Captan,BMY,TCF,ACP,AZ,CBF,CPY,DZ,EN,MLN,MOM,MP,DS,FNTH,PMR,PRT,TFN,ETN; Habitat: T; Effect Codes: REP,CEL,PHY; Code: NO ENDPOINT(ALL CHEMS),NO BACTERIA(DZ,EN,PMR,MZB,Maneb,Zineb,24DXY,PPN,TFN,ETN).

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EcoReference No.: 89192  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,CEL; Code: NO CONTROL,NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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EcoReference No.: 89564  
Chemical of Concern: CYH,CYP,ES,FVL,MLN,FYT,FNV,DM; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS,TARGET-CYP,FVL,MLN).

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EcoReference No.: 90673  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MLN).

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Chemical of Concern: PPB,MLN; Habitat: T; Effect Codes: CEL,PHY; Code: NO ENDPOINT(PPB,TARGET-MLN).

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Chemical of Concern: MLN,ES; Habitat: A; Effect Codes: ACC; Code: NO CONTROL,NO ENDPOINT(MLN,ES).

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EcoReference No.: 18418  
Chemical of Concern: MLN,PRN,PHSL,CBL; Habitat: A; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(CBL),NO ENDPOINT(MLN,PRN,PHSL).

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EcoReference No.: 88470  
Chemical of Concern: Cd,Zn,CuCl,Pb,MLN,CBL,EPRN,PHSL; Habitat: AT; Effect Codes: BCM; Code: NO ENDPOINT,CONTROL(ALL CHEMS).

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EcoReference No.: 38655  
Chemical of Concern: Ziram,AN,BZO,BZC,Captan,THM,ZINEB,CYT,SFL,MAL,MRX,ACL,MLN,ABT,CBZ,MCB,CBL,CMPH,HCCH,EN,AND,ES,NP,TCF,CPY,DDVP,PPHD,DCTP,DS,PRT,DMT,AZ,PSM,ETN,DEM,DZ,FNTH,MP,NCTN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),NO COC(4AP).

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EcoReference No.: 35426  
Chemical of Concern: ADC,CST,MOM,CPC,ZnP,DOD,MLN,Cu,AQS,CuCO,RSM,ACL,4AP,DZ,As,IAA,CBL,DNB,Captan,Folpet,CAP; Habitat: T; Effect Codes: MOR; Code: NO CONTROL,ENDPOINT(ALL CHEMS).

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Chemical of Concern: CBF,PYT,MTM,ACP,CPY,DEM,MLN,CBL,FNV,PAQT,GYP,SMM ; Habitat: T; Effect Codes: PHY; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: RSM,SZ,CBL,CPY,HCCH,MLN,MP,Naled,24DXY,MCPB,ATM; Habitat: A; Effect Codes: SYS,ACC,MOR,BCM,POP; Code: NO CONTROL(RSM,SZ,CBL,CPY,HCCH,MLN,MP,Naled,24DXY,MCPB,ATM).

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EcoReference No.: 5165  
Chemical of Concern: MLN; Habitat: A; Code: NO FOREIGN,NO CONTROL(MLN).

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EcoReference No.: 4909  
Chemical of Concern: ES,MLN,FNV; Habitat: A; Effect Codes: MOR,PHY; Code: NO CONTROL(ES,MLN,FNV).

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EcoReference No.: 38708  
Chemical of Concern: MLN,PRT,DCTP,DZ,CBL,MTM; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 46276  
Chemical of Concern: FNT,MLN,DDT,DLD,HCCH,PPX,FNTH,Naled,CPY,MP; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(TARGET-MLN,Naled,CPY,MP).

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EcoReference No.: 63216  
Chemical of Concern: TMT,CPY,ABT,FNTH,PRN,FNT,DDVP,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP,REP,MOR,PHY; Code: NO ENDPOINT(MLN).

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EcoReference No.: 45077  
Chemical of Concern: DDT,MLN,DZ,CYP,FNT,DLD,PMR,PPX; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,PMR,PRN,MOM,CBL,DDT,DLD,NCTN,CPY,CBF; Habitat: T; Effect Codes: ACC; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 5883  
Chemical of Concern: MLN,EN,DLD; Habitat: A; Effect Codes: MOR,BCM; Code: NO ENDPOINT(MLN,EN,DLD).

Sharma, R. K., Shandilya, S., and Sharma, S. (1983). Observations on the Effect of Malathion on the Mortality of Fish, Clarias batrachus (Linn.). *Comp.Physiol.Ecol.* 8: 155-156.

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT,CONTROL(MLN).

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Chemical of Concern: DS,MLN,MP,PPHD; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL,BEH; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,GRO,BEH; Code: NO CONTROL,ENDPOINT(MLN).

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Chemical of Concern: DDT,MLN,HCCH; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(DDT,MLN,HCCH).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM,CEL,PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN,Cd; Habitat: A; Effect Codes: BCM; Code: OK(Cd),NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 6646  
Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

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EcoReference No.: 6377  
Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 6647  
Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 91031  
Chemical of Concern: CBL,ES,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,CBL).

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Chemical of Concern: MLN,ES,CBL; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,CBL).

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Chemical of Concern: MLN,ES,CBL; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,CBL).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: ACC; Code: NO CONTROL,ENDPOINT(MLN).

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EcoReference No.: 12689  
Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: BCM,MOR; Code: NO ENDPOINT,CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 87094  
Chemical of Concern: FNT,MLN,DS,ADC,ES; Habitat: T; Effect Codes: GRO,POP; Code: OK(FNT,DS,ADC,ES),NO MIXTURE(MLN).

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Chemical of Concern: CBL,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(CBL).

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EcoReference No.: 3971  
Chemical of Concern: CBL,MLN,ES; Habitat: A; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(CBL),NO CONTROL(MLN,ES).

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Chemical of Concern: AND,DZ,DLD,DMT,MLN,TXP,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS,TARGET-DZ,MLN).

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Chemical of Concern: Cd,CBF,Cu,CN,MLN,Mn,Hg,PL,Zn; Habitat: A; Effect Codes: MOR,POP,PHY; Code: NO TOX DATA(CBF,MLN),CONTROL(Cd,Cu,CN,Mg,Hg,PL,PPX,Zn).

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EcoReference No.: 92008  
Chemical of Concern: CTN,MAL,HCCH,DZ,MLN,Captan,CBL,ACP; Habitat: T; Effect Codes: BEH; Code: NO CONTROL,ENDPOINT(ALL CHEMS).

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Chemical of Concern: DZ,MLN; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(DZ,MLN).

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Chemical of Concern: CBL,MLN; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL),NO CONTROL(MLN).

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EcoReference No.: 89172  
Chemical of Concern: CBD,MLN; Habitat: T; Effect Codes: REP; Code: NO ENDPOINT(CBD,MLN).

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Chemical of Concern: DDT,PRN,CBL,MLN; Habitat: A; Effect Codes: GRO,CEL,MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN,MP,CBL,DZ,MVP,24DXY,PRN,ATZ,CBF; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS,TARGET-MLN),NO MIXTURE(ATZ).

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Chemical of Concern: MLN,PRN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,PRN).

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EcoReference No.: 2679  
Chemical of Concern: MLN,PRN,DDVP,PPHD,EPRN,DEM; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: DDT,HPT,CPY,MLN,TMP,CBL,MOM,PPX,PMR,RSM,SMT; Habitat: A; Effect Codes: MOR,GRO; Code: NO ENDPOINT(DDT,HPT,CPY,MLN,TMP,CBL,MOM,PPX,PMR,RSM,SMT).

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Chemical of Concern: SZ,AZD,CBF,ES,MLN,PYT,RTN,DCNA,PPZ,Captan,HXZ; Habitat: A; Effect Codes: MOR; Code: NO TOXICANT(SZ,DCNA,PPZ),PUBL AS(AZD,CBF,ES,MLN,PYT,RTN),NO COC(CBL).

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Chemical of Concern: DMT,BMY,MZB,IPD,VCZ,TDF,MLN,BTN,Captan,Cu,DOP,TFR,AZ,DCF,DMT,FNTH,FNT,DZ,PRN,MCPP1; Habitat: T; Effect Codes: POP; Code: NO CONTROL(ALL CHEMS),TARGET(MZB,TFR,Captan).

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Chemical of Concern: MLN,PCP; Habitat: A; Effect Codes: ACC,GRO,POP; Code: NO CONTROL,ENDPOINT(MLN,PCP).

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Chemical of Concern: ACP,AZ,BMC,Captan,CBF,CPY,DEM,DMT,FNTH,Folpet,MLN,MOM,MXC,PRN,SID,SZ,TCF,TFN; Habitat: T; Effect Codes: CEL,MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: 24DXY,DMT,HCCH,MLN,PQT,PRT; Habitat: A; Effect Codes: PHY; Code: LITE EVAL CODED(DMT,PRT),OK(ALL CHEMS),NO CONTROL(MLN).

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Chemical of Concern: DDVP,Cd,PL,CBL,MLN,CBF,CuS,DEM,CHD,NaPCP; Habitat: A; Effect Codes: MOR,GRO; Code: LITE EVAL CODED(CBL,CBF,CuS,NaPCP),NO CONTROL(MLN),OK(DDVP,Cd,PL,DEM,CHD).

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Chemical of Concern: NaPCP,CHD,Cd,CuS,Zn,HgCl2,ABT,CBF,HCCH,DDVP,CBL,PL,ES,MLN,SA,AND; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL,CBF,CuS,NaPCP),OK(ALL CHEMS),NO CONTROL(MLN).

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Chemical of Concern: 24DXY,DZ,HCCH,MLN,MP,ACL,NAA,NYP,CST,Cu,RTN,NaN3,Ni,CuS,PCP,NaPCP,NaCr,DBAC,Zn,ATZ,Cd,NaID,Pb,As,DCB,CBL,DMPA; Habitat: A; Effect Codes: BEH,MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: GRO,BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 283  
Chemical of Concern: CPY,ADC,PRT,DS,HCCH,CBL,HPT,PPX,FNT,MLN,DZ,TMP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL,NO DURATION(DS,MLN),NO CONTROL(TMP,DZ,CPY,FNT).

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Chemical of Concern: CPY,ADC,PRT,DS,HCCH,CBL,HPT,PPX,FNT,MLN,DZ; Habitat: A; Effect Codes: MOR; Code: NO FOREIGN,NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,CBL,PMR,EFV,CYF,CYP,CBF,LCYT,PSM,TDC,CPY; Habitat: T; Effect Codes: POP; Code: OK TARGET(ALL CHEMS),OK(CBF).

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 81077  
Chemical of Concern: APAQ,MLN,MCPA; Habitat: T; Effect Codes: GRO,MOR; Code: LITE EVAL CODED(APAQ),OK TARGET(MLN),OK(MCPA).

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Chemical of Concern: PIRM,MLN,DDVP,DZ,FNT,PPB,TBF; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(TARGET-MLN,DZ),NO MIXTURE(PPB,TBF),TARGET(DDVP,PIRM,FNT).

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Chemical of Concern: PHSL,PRN,AZ,BMY,DLD,DOD,ES,FBM,PHSL,PPHD,THM,OML,MLN,Zineb,CBL,Folpet,DINO; Habitat: T; Effect Codes: BCM; Code: NO CONTROL,ENDPOINT(Folpet),OK(ALL CHEMS),NO COC(Maneb).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: FNT,PPX,PIRM,MLN,BDC,CBL; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(FNT,PIRM,MLN,CBL).

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Chemical of Concern: TBF,TCF,PRN,MP,MLN,FNT,DZ,DDVP,FNTH; Habitat: T; Effect Codes: BCM; Code: NO REVIEW(MP,MLN,TBF,DZ),NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: DZ,HCCH,MLN,EN,DLD,DDT,Ag,Cd,CBL; Habitat: A; Effect Codes: MOR; Code: NO FOREIGN//NO CONTROL(MLN).

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EcoReference No.: 63606  
Chemical of Concern: MLN,CPY,BDC,DM,ACP,PPB,MOM; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MOM,MLN),NO MIXTURE(PPB),TARGET(ACP).

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Chemical of Concern: MLN,MLO; Habitat: T; Effect Codes: BCM,CEL,MOR; Code: NO CONTROL(MLO,MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: CTC; Habitat: T; Effect Codes: BCM; Code: NO COC(MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP,GRO; Code: NO DOM(MLN).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: CBF,DS,RSM,TCF,CBL,MXC,ACP,DMT,PMR,PSM,PHSL,CPY,HCCH,FNT,MLN,DZ; Habitat: T; Effect Codes: ACC,POP,MOR; Code: TARGET(CBF,DS,RSM,TCF,CBL,ACP,DMT,PMR,PSM,MLN,FNT,DZ,CPY).

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Brucker-Davis, F. (1998). Effects of Environmental Synthetic Chemicals on Thyroid Function. *Thyroid* 8: 827-856.

Chemical of Concern: TFN,TPZ,TDP,PYN,PYM,PPB,PPM,Al,Cd,Pb,Hg,PHTH,DXN,FRN,HCB,PCB,BMN,CBL,CBF,AND,ACR,DDT,DCF,DLD,ES,EN,HCCH,TXP,DMT,FNT,MLN,MP,CYH,BFT,FNV,DM,PCL,MBZ,Maneb,Nabam,PDM,PCNB,Zineb,ATZ,Nf,PCP,ACO,DCPA,EFX,BMC,CTZ,FNB,FPN; Habitat: T

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 72767  
Chemical of Concern: AZ,CPY,CYP,PSM,MLN,MP,MOM,AMZ,PRN,PIM,CPYM,FNV,MVP,DM,PSM; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN,CYP,AZ),TARGET(MOM,MP).

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EcoReference No.: 88909  
Chemical of Concern: PMR,MLN,MP,DMT,PPX,FNV,DDT; Habitat: T; Effect Codes: MOR,ACC,BCM; Code: TARGET(DMT,MLN,MP),OK(ALL CHEMS).

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Chemical of Concern: MXC,MLN,TCF; Habitat: T; Effect Codes: CEL; Code: NO ENDPOINT(TCF,MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR; Code: TARGET MLN.

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Chemical of Concern: MLN,ES,DS,DMT,CPY; Habitat: T; Effect Codes: POP; Code: OK(ES,DS,CPY),NO TARGET,NO CROP(MLN,DMT).

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EcoReference No.: 73094  
Chemical of Concern: MLN,CPY,ES,DMT,PMR; Habitat: T; Effect Codes: POP,GRO; Code: LITE EVAL CODED(DMT),TARGET(MLN).

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EcoReference No.: 73097  
Chemical of Concern: EFV,MLN,ES,PMR,MOM,CBL,MP,PSM,AZD,PRN; Habitat: T; Effect Codes: POP,GRO,BCM; Code: LITE EVAL CODED(EFV,MOM,AZD),TARGET(MLN,CBL),OK(ALL CHEMS),NO CROP(MP).

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Chemical of Concern: SS,MP,MOM,MLN,CYH,DS,CBF,CBL; Habitat: T; Effect Codes: GRO,POP,PHY; Code: EFFICACY(MP,MOM,MLN,CBF,CBL,DS).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: DDT,PRT,HCCH,MLN,MXC,TXP,DLD,EN,HPT,CHD,Naled; Habitat: A; Effect Codes: ACC,BCM,MOR; Code: NO CONTROL(HCCH,MXC,TXP,DLD,EN,HPT,CHD),NO ENDPOINT,NO CONTROL(PRT,MLN),NO ENDPOINT(Naled).

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Chemical of Concern: AZ,DS,HCCH,MLN,MP,Naled,PRT,24DXY,CMPH,DMT,DU,PEB,PSM,NTP,TXP,CBL; Habitat: A; Effect Codes: BEH,POP,MOR,GRO,ACC,SYS; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: 24DXY,HCCH,MLN,WFN,PCP,Ba,CTC,PL,SFL,NCTN,LPS,PAQT,As,CuS,Hg,TI,CF,AMSV; Habitat: A; Effect Codes: MOR,PHY; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: CF,24DXY,C8OH,NP,CBL,ACC,PCP,RTN,MLN; Habitat: A; Effect Codes: PHY,MOR; Code: LITE EVAL CODED(CBL,C8OH,ACL),NO ENDPOINT(RTN,MLN).

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Chemical of Concern: CF,24DXY,C8OH,NP,CBL,ACC,PCP,RTN,MLN; Habitat: A; Effect Codes: PHY,MOR; Code: LITE EVAL CODED(CBL,C8OH,ACL),NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN,Naled; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN,Naled).

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Chemical of Concern: CPY,MP,AZ,DCTP,CBL,CBF,DDT,TXP,MRX,MLN,MOM,ADC; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL(MLN).

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Chemical of Concern: LCYT,DM,PMR,BDC,PPX,MLN,DDT; Habitat: T; Effect Codes: MOR,BCM; Code: TARGET(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BEH,GRO,PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DDT,DLD,DZ,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: DLD,BRSM,PYN,MLN,PMR,PPX,DDT; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,GIB,IAA; Habitat: T; Effect Codes: BCM,CEL; Code: NO ENDPOINT(MLN,GIB,IAA).

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Chemical of Concern: GIB,IAA,MLN; Habitat: T; Effect Codes: GRO,PHY,BCM; Code: NO CROP(MLN),NO MIXTURE(GIB,IAA).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 89147  
Chemical of Concern: CYP,PPHD,DEM,DMT,MLN,ES,CPY; Habitat: T; Effect Codes: POP; Code: OK(ALL CHEMS),OK TARGET,NO CROP(MLN,DMT).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: 24DXY,MLN,PQT,Zn,MZB,Captan; Habitat: A; Effect Codes: REP,GRO; Code: NO ENDPOINT(Captan,24DXY,MLN,PQT,Zn,MZB).

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Chemical of Concern: DMT,MLN; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(DMT),NO CONTROL(MLN).

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Chemical of Concern: CuOH,BMY,THM,24DXY,MLT,MP,CBL,CBF,MLN,PPN,Captan; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(MLT,CuOH),NO CONTROL(ALL CHEMS).

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Chemical of Concern: DDT,PRN,HCCH,CBL,MLN,DZ; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Code: IN VITRO(MLN).

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Chemical of Concern: DDVP,HCCH,DDT,MLN,CBL,TMP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: DFZ,ALSV,ETN,PRB,CBL,FTT,FO,CPY,DCF,CuOH,DMT,AZD,CuS,FMB,BMY,MLN,PPG,FNB,CFP,AZ; Habitat: T; Effect Codes: POP,MOR; Code: OK(CuOH,CuS,FNB,BMY,FBM,CPY,PRB,CBL,FTT,FO,DCF,DMT,AZD),TARGET(MLN,AZ,CBL),NO MIXTURE(ETN).

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EcoReference No.: 78988  
Chemical of Concern: DFZ,ALSV,ETN,PRB,CBL,FTT,FO,CPY,DCF,CuOH,AZD,CuS,FBM,BMY,MLN,PPG,FNB,CFP; Habitat: T; Effect Codes: REP,MOR; Code: OK(DFZ,PRB,FTT,FO,CPY,DCF,AZD,CuS,FBM,BMY,PPG,FNB,CFP),NO MIXTURE(ALSV,ETN,CuOH),OK TARGET(CBL,MLN).

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EcoReference No.: 12464  
Chemical of Concern: DDT,CBL,MLN,CBF,FNT,TMP,FNTH,CPY,DDVP,PPX; Habitat: A; Effect Codes: MOR,CEL; Code: LITE EVAL CODED(CBL,CBF),OK(ALL CHEMS),NO CONTROL(MLN).

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EcoReference No.: 2248  
Chemical of Concern: CBL,MLN,DDT; Habitat: A; Effect Codes: GRO,ACC; Code: NO ENDPOINT(CBL,MLN,DDT).

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EcoReference No.: 92890  
Chemical of Concern: LCYT,PPB,TBF,MLN,ABM; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN),NO MIXTURE(TBF,PPB).

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Chemical of Concern: MLO,MOM,CBL,CBF,PPX,MLN,MP,TBF,PPB,PRN; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL(MOM,CBF,TARGET-MLO,CBL,MLN,MP,CBF),NO MIXTURE(TBF,PPB).

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EcoReference No.: 93001  
Chemical of Concern: ACP,MLN,AZ,CPY,FNV,PMR,FVL,BFT,EFV; Habitat: T; Effect Codes: MOR; Code: TARGET(ACP,MLN,AZ,CPY,FNV,PMR,FVL,BFT,EFV) .

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Chemical of Concern: CPY,MLN,BFT,ACP,AZ,EFV,FVL,FNV,PMR; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(TARGET-ALL CHEMS).

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Chemical of Concern: NaPCP,HCCH,MBZ,MLN,DMM,TXP,PL,Fe,HPT,DZ,DDT,DLD,CHD,FML,RTN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,CN,Zn; Habitat: A

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 8797  
Chemical of Concern: CBL,MLN,DDT,AND; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(CBL,DDT,MLN,AND).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 97541  
Chemical of Concern: PRN,MLN,MLO; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(ALL CHEMS),CROP(MLN,MLO).

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Chemical of Concern: PRN,ABT,MLN; Habitat: T; Effect Codes: BCM; Code: NO CONTROL(MLN),NO MIXTURE(PRN,ABT),NO COC(MLO).

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Chemical of Concern: MLO; Habitat: DOM, RODE

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Chemical of Concern: MLN,Naled; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN,Naled).

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Chemical of Concern: LIM,MLN; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN).

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Chemical of Concern: SMT,MTPN,MLN,CPYM,BRSM,CBL,CYF,PPB,TBF,CYP,FNV,FVL,CYH,DM,FNT,CYT,PIRM; Habitat: T; Effect Codes: MOR,REP; Code: NO MIXTURE(TBF,PPB),TARGET(SMT,MTPN,CPYM,BRSM,CBL,CYF,CYP,FNV,FVL,PIRM,FNT,MLN) .

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: A; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: PRT,PHSL,PPHD,PIM,PIRM,PFF,PTP,PPX,PRB,RTN,SFT,SPS,TFT,TMP,TBO,TMT,TDC,TLM,TCF,HPT,HFR,IMC,IZF,IFP,LCYT,HCCH,MLN,MTM,MDT,MOM,MTPN,MXC,Naled,OMT,OML,OXD,PRN,MP,PCB,PMR,PTR,CYH,CYP,CHT,CYR,DD,DZM,DDT,DM,DEM,DZ,DDVP,DLD,DFZ,DMT,DS,ES,EFV,ETN,FNT,FPP,FNTH,FNV,FPN,FCX,FYT,FVL,FNP,ABM,ACP,ADC,AND,ATN,AMZ,AZM,AZ,BDC,BCY,BFT,BRSM,BPZ,CBL,CBF,CHD,CLP,CPY,CPYM,CMPH,CST,CYF,CYR; Habitat: AT; Code: NO REVIEW(ALL CHEMS),REFS CHECKED.

Cope, O. B. (1966). Contamination of the Freshwater Ecosystem by Pesticides. *J.Appl.Ecol.* 3: 33-44 (Publ in Part As 6797).

EcoReference No.: 10337  
Chemical of Concern: DDT,HCCH,DLD,DU,MLN,24DXY,CBL,DBN,DZ,MLT,PAQT,PYN,TFN,CuS; Habitat: A; Effect Codes: MOR,ACC,REP; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 2871  
Chemical of Concern: CHD,CuS,PAQT,MCB,TFN,DBN,DZ,AND,PYN,HPT,EN,DLD,HCCH,EPRN,DDT,TXP,MRT,VNT,CU,ATN,DU,SZ,MLN,RTN,MXC,DDVP,DMT,FNTH,TCF,ADC,CBL,BS,DBM,FNF,24DXY,AMSV,DBAC,NSM,BYT,MVP; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(Naled,BS,MLN),OK(ALL CHEMS).

Coppage, D. L. and Matthews, E. (1974). Short-Term Effects of Organophosphate Pesticides on Cholinesterases of Estuarine Fishes and Pink Shrimp. *Bull.Environ.Contam.Toxicol.* 11: 483-488.

EcoReference No.: 2902  
Chemical of Concern: PRN,AZ,MLN,Naled; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(PRN,AZ,MLN,Naled),NO ENDPOINT(Naled,MLN).

Coppage, D. L., Matthews, E., Cook, G. H., and Knight, J. (1975). Brain Acetylcholinesterase Inhibition in Fish As a Diagnosis of Environmental Poisoning by Malathion, O,O-Dimethyl S-(1,2-Dicarbethoxyethyl) Phosphorodithioate. *Pestic.Biochem.Physiol.* 5: 536-542.

EcoReference No.: 7716  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO ENDPOINT(MLN).

Corbett, J. R., Wright, K., and Baillie, A. C. (1984). Insecticides Inhibiting Acetylcholinesterase. *In: The Biochemical Mode of Action of Pesticides, Second Edition, Acad.Press, London* 99-140.

Chemical of Concern: AZ,CPY,DZ,DMT,MLN,PRN,PSM,CBL,CBF; Habitat: T

Cordle, M. K. (1988). Usda Regulation of Residues in Meat and Poultry Products. *J anim sci* 66: 413-433.

Chemical of Concern: MLN; Habitat: T

Corson, M. S., Mora, M. A., and Grant, W. E. (1998). Simulating Cholinesterase Inhibition in Birds Caused by Dietary Insecticide Exposure. *Ecological modelling* 105: 299-323.

Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 90683  
Chemical of Concern: DS,PPX,MLN,CPY; Habitat: T; Effect Codes: BCM,MOR,BEH,PHY; Code: NO CONTROL(MLN,CPY),OK(DS).

Cotham, W. E Jr and Bidleman, T. F. (1989). Degradation of Malathion Endosulfan and Fenvalerate in Seawater and Seawater-Sediment Microcosms. *J agric food chem* 37: 824-828.

Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: AT

Cox, P. D., Parish, W. E., and Beirne, M. A. (1989). Variations in the Refuge-Seeking Behaviour of Four Strains of Cryptolestes Ferrugineus (Stephens) (Coleoptera: Cucujidae) at Different Temperatures. *Journal of Stored Products Research* 25: 239-242.

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EcoReference No.: 15074  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BEH,BCM; Code: NO ENDPOINT(MLN).

Cranmer, M. and Peoples, A. (1973). Determination of Trace Quantities of Anticholinesterase Pesticides. *Analytical Biochemistry* 55: 255-265.

Chemical of Concern: MLO; Habitat: AT

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EcoReference No.: 14348  
Chemical of Concern: TXP,AND,MLN,24DXY,PCP,CBL,HCCH,PRN,DDT,PAQT; Habitat: A; Effect Codes: GRO,MOR; Code: NO CONTROL,NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: TXP,CBL,MLN,PCP,PL,DDT; Habitat: A; Effect Codes: GRO; Code: NO CONTROL,NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 17289  
Chemical of Concern: Cd,ATZ,HCCH,MLN,TBT,Cu,CuS,PCP,PL,Zn,Cr,Cd; Habitat: A; Effect Codes: MOR,PHY; Code: NO CONTROL(MLN,ATZ),OK(ALL CHEMS).

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EcoReference No.: 7984  
Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: PHY; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 3664  
Chemical of Concern: AZ,CMPH,CPY,MLN,MP,MXC,EN,DLD,HCCH,CHD,PRN,DDT,DZ ; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(AZ,DZ),NO CONTROL(ALL CHEMS).

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Chemical of Concern: CPY,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 90651  
Chemical of Concern: MLN; Habitat: T; Effect Codes: BEH,REP,MOR; Code: OK TARGET(MLN).

Dad, N. K. and Pandya, V. K. (1982). Acute Toxicity of Two Insecticides to Rotifer Brachionus calyciflorus. *Int.J.Environ.Stud.* 18: 245-246.

EcoReference No.: 18254  
Chemical of Concern: CBF; Habitat: A; Effect Codes: MOR; Code: NO COC(MLN).

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EcoReference No.: 2723  
Chemical of Concern: CBF,MLN; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBF),NO CONTROL(MLN).

Dadheech, L. N. and Singh, C. (1996). Seasonal Incidence and Bioefficacy of Insecticides Against Insect Pests of Green Gram Vigna radiata L. Uilezek. *In: S.C.Goel (Ed.), Insect and Environment, VI: Integrated Pest Management and Sustainable Agriculture: An Entomological Approach, Symposium, Sept.22-24, 1995, The Uttar Pradesh Zool.Soc., Muzaffarnagar, India* 191-195.

Chemical of Concern: MLN; Habitat: T; Code: OK TARGET.

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EcoReference No.: 70523  
Chemical of Concern: MLN,FNT,PIRM,PMR,DM,CPYM,BRSM,CBL; Habitat: T; Effect Codes: MOR,REP; Code: LITE EVAL CODED(BRSM),OK(ALL CHEMS),TARGET(CBL,MLN).

Dahiya, K. K., Lakra, R. K., Dahiya, A. S., and Singh, S. P. (1994). Bioefficacy of Some Insecticides Against Citrus psylla, Diaphorina citri Kuw. (Psyllidae: Homoptera). *Crop Res.* 8: 137-140.

EcoReference No.: 89880  
Chemical of Concern: OXD,DMT,CYP,CPY,DDT,HCCH,DDVP,DCM,ES,FNV,MLN,PPHD; Habitat: T; Effect Codes: POP,MOR; Code: OK(CPY,DDT,DDVP,DCM,FNV,PPHD),OK TARGET(OXD,DMT,CYP,MLN,ES),NO MIXTURE(HCCH).

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Chemical of Concern: MLO; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: DEM,MLN,DMT,HCCH,ES; Habitat: T; Effect Codes: POP; Code: OK(DEM,HCCH,ES),NO CROP(TARGET-MLN,DMT).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 98134  
Chemical of Concern: CBNDS, MLN; Habitat: T; Effect Codes: PHY,BCM; Code: NO ENDPOINT(CBNDS,MLN).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 8058  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DM,MLN; Habitat: T; Code: TARGET MLN.

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EcoReference No.: 7753  
Chemical of Concern: LNR,MLN,PQT; Habitat: A; Effect Codes: PHY,MOR; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: CBL,ADC,MLN,FNT,AND,DDT,ES,ES1,ES2,ES3,PMR,ATZ,PPN,TPR,TBTO; Habitat: A; Code: NO REVIEW(CBL,ADC,MLN,FNT,AND,ES,ES1,ES2,ES3,PMR,ATZ,PPN,TPR,TBTO).

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Chemical of Concern: MP,FNT,FNTH,MDT,AZ,PSM,MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,MP,FNT,FNTH; Habitat: A; Effect Codes: BCM,ACC; Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 36371  
Chemical of Concern: PRN,HCCH,PPX,MLN,FNT,DDVP,PIRM,BDC,PMR,DM; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),TARGET(PIRM,FNT).

De Llamas, M. C., De Castro, A. C., and De d'Angelo, A. M. P. (1985). Cholinesterase Activities in Developing Amphibian Embryos Following Exposure to the Insecticides Dieldrin and Malathion. *Arch.Environ.Contam.Toxicol.* 14: 161-166.

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(MLN).

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Chemical of Concern: CBL,AND,EN,DLD,HPT,CHD,HCCH,MLN,TXP,DDT,DS,AZ,MXC; Habitat: T; Effect Codes: MOR,REP,ACC; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: DMT,MLN,HCCH,PPHD,CBL,MP,LCYT,DCM,CYP,FPP,FNV,PYN,ES; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),TARGET(,MLN,CBL,MP).

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Chemical of Concern: PNB,THM,PCP,PCB,MP,EPRN,MLN,MCPB,MCPA,CBL,AZ,AND,DDT,24DXY,HCCH,FNT,EN,ES,DMT,DLD; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(ALL CHEMS)//NO SPECIES(PCB).

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Chemical of Concern: PSM,As,TXP,HCCH,MLN,CMPH,CPY,ETN; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT,NO CONTROL(PSM),NO CONTROL(MLN,CMPH,CPY).

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Chemical of Concern: AND,CBL,DDT,DLD,ES,EN,HPT,MLN,PRN,DDVP,ETN; Habitat: T; Effect Codes: MOR,REP; Code: NO ENDPOINT(MLN,CBL).

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EcoReference No.: 45084  
Chemical of Concern: PHSL,DMT,MLN,MP,FNT,FNTH,DZ,EPRN,CPY,DDVP,PPHD; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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Chemical of Concern: ES,EN,PRN,MLN,DZ,HCCH,DDT,CBL; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BEH; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DEM,CPY,PIRM,MLN,CYP; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(DEM,CPY,PIRM,MLN,CYP).

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Chemical of Concern: MLN,CPY,CYP,BFT,TCF; Habitat: T; Effect Codes: POP; Code: OK(TCF),OK TARGET(MLN,CPY,CYP,BFT).

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EcoReference No.: 63828  
Chemical of Concern: CBF,HCCH,EN,MLN,DCM,DMT,CYP,FNV; Habitat: T; Effect Codes: MOR,REP,DVP; Code: OK(ALL CHEMS),OK TARGET(DMT,MLN,CYP).

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Chemical of Concern: ETN,Naled,FNV,PRN,ES,OML,PPHD,MTM,MOM,MVP,MLN,DCF,CBL,DZ,AZ,DMT; Habitat: T; Effect Codes: POP,GRO; Code: OK(ALL CHEMS),OK TARGET(MOM,CBL),NO TARGET,NO CROP(MLN,DMT,Naled).

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Chemical of Concern: MLO; Habitat: T

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Chemical of Concern: HCCH,MLN,MP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,HCCH,MP).

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EcoReference No.: 2896  
Chemical of Concern: HCCH,MLN,MP,DDT,AND,EN,HPT,MXC,DDVP; Habitat: A; Effect Codes: REP,MOR; Code: NO CONTROL,ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: GRO,BCM,ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP,BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: CPY,MLN,MP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,CPY,MP).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: PIRM,DDT,CBL,MLN,HPT,FNT,CuS; Habitat: A; Effect Codes: BCM,GRO,CEL,POP; Code : NO ENDPOINT(ALL CHEMS,TARGET-CBL).

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Chemical of Concern: MLN,24D; Habitat: T; Effect Codes: POP,PHY; Code: NO ENDPOINT(MLN,24D).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: PYN,PRN,MLN,DMT,DLD,DDVP,DZ,ATN,AZ,HCCH,CBL,DEM,DDT; Habitat: T; Effect Codes: PHY,MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: OXD,MLN,CPY; Habitat: T; Effect Codes: POP,GRO; Code: OK TARGET(OXD,CPY),OK TARGET,NO CROP(MLN).

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 93160  
Chemical of Concern: BMY,CBL,DDT,HCCH,MLN,PPX,DDVP; Habitat: T; Effect Codes: BEH,PHY,BCM; Code: NO ENDPOINT(MLN,DDT,HCCH,PPX,CBL,BMY,DDVP),NO COC(PAH).

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Chemical of Concern: DM,CYP,PMR,BRSM,MOM,PPX,PTP,TCF,MLN,MXC,DDT,HCCH ; Habitat: T; Effect Codes: MOR; Code: LITE EVAL CODED(CYP,BRSM),OK(ALL CHEMS),TARGET(MLN,MOM).

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Chemical of Concern: 24DXY,CBL,MLN; Habitat: A; Effect Codes: BCM,BEH; Code: NO CONTROL(MLN,CBL,24DXY).

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Chemical of Concern: DZ,DDT,CBL,CBF,MLN,CYR,FMP,FTT,PPM,PAQT; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBF),OK(DDT,CYR,FMP,FTT,PPM,PAQT),NO REVIEW(DZ,CBL,MLN).

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EcoReference No.: 42817  
Chemical of Concern: EPH,FO,DCF,PPG,MOM,MLN,DZ,DDVP,RSM,OML,ADC,ES; Habitat: T; Effect Codes: PHY,GRO; Code: LITE EVAL CODED(DZ,MOM,ADC,RSM),NO ENDPOINT,NO CONTROL(PPG,DDVP,ES,MLN,DCF).

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Chemical of Concern: CSF,MLN,DMT,EFV; Habitat: T; Effect Codes: PHY,POP,GRO; Code: OK(CSF),NO ENDPOINT(MLN,DMT,EFV).

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Chemical of Concern: MLO; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 91344  
Chemical of Concern: CBL,CMPH,DDT,HCCH,TXP,CHD,AND,DLD,Naled,MLN,PRN,AZ; Habitat: T; Effect Codes: MOR; Code: OK TARGET(Naled,MLN,AZ).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM,MOR; Code: TARGET(MLN).

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EcoReference No.: 104068  
Chemical of Concern: TCF,PIM,PSM,PHSL,PMR,MP,PRN,OMT,MVP,MOM,MDT,MLN,FNV,FNTH,FPP,AZ,CBL,CPY,CYF,CYP,DM,DZ,DDVP,DFZ,DMT,ES,FYC; Habitat: AT; Code: NO FOREIGN(TCF,PIM,PSM,PMR,MP,OMT,MVP,MOM,MDT,MLN,ES,FYC,FNV,FPP,AZ,CBL,CPY,CYF,CYP,DM,DZ,DDVP,DFZ,DMT).

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EcoReference No.: 91915  
Chemical of Concern: MP,CBL,ACP,CPY,DZ,MLN; Habitat: T; Effect Codes: POP; Code: OK TARGET(MP,CBL,ACP,CPY,DZ,MLN).

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EcoReference No.: 7293  
Chemical of Concern: ADC,PPX,PRN,MLN,ETN,DDVP,MP,CBF,CBL; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL,CBF,ADC),NO CONTROL(MLN),OK(PPX,PRN,ETN,DDVP,MP).

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EcoReference No.: 69764  
Chemical of Concern: BRSM,RSM,MLN,PYT,ATN; Habitat: T; Effect Codes: MOR; Code: LITE EVAL CODED(ATN),OK(PYT),OK TARGET(MLN,RSM,BRSM).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 88737  
Chemical of Concern: PSM,MLN,MXC,CBL,CPY,EFV; Habitat: T; Effect Codes: POP; Code: OK(PSM,MXC,CPY),OK TARGET(EFV,MLN,CBL).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 65795  
Chemical of Concern: DLD,DDT,MLN; Habitat: T; Effect Codes: BCM,GRO; Code: NO ENDPOINT(MLN,DDT,DLD)//OK Coded DJG//.

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Chemical of Concern: MLO; Habitat: T

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Chemical of Concern: MLN,CBL,DZ,Naled,DDVP; Habitat: T; Effect Codes: POP,MOR; Code: NO ENDPOINT(MLN,CBL,DZ,Naled).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL(MLN).

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EcoReference No.: 2820  
Chemical of Concern: FBM,PPHD,Zineb,DEM,TXP,DOD,PRO,ATZ,HPT,ETN,AND,Naled,PRT,MP,NaDC,Ziram,THM,Captan,MLN,DCF,AZ,HPT,MXC,DMT,DDT,TCF,CMPH,PRN,HCCH,DLD,EN,ES,MTAS; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(MTAS,AZ,PRO,ATZ,DMT,DOD,PRT),NO CONTROL(Naled,Captan,MLN),OK(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN,DLD,PCB,Hg,CBL,DCTP,PRN,DDT; Habitat: AT; Effect Codes: MOR; Code: LITE EVAL CODED(CBL,DCTP),NO ENDPOINT(MLN).

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Chemical of Concern: MLO; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 89193  
Chemical of Concern: FNTH,CPY,FNV,PMR,MLN; Habitat: T; Effect Codes: POP; Code: OK(FNTH,FNV),OK TARGET(CPY,PMR,MLN).

Fukuto, T. R. (1983). Toxicological Properties of Trialkyl Phosphorothioate and Dialkyl Alkyl- and Arylphosphonothioate Esters. *J.Environ.Sci.Health Part B* 18B: 89-117 .

EcoReference No.: 90705  
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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 14708  
Chemical of Concern: RSM,DDT,PYT,CYP,ATN,MLN; Habitat: A; Effect Codes: MOR; Code: NO DURATION(RSM,ATN,PMR),NO CONTROL(DDT,MLN).

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EcoReference No.: 15291  
Chemical of Concern: CBL,MLN,DDT; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL),NO CONTROL(MLN),OK(DDT).

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EcoReference No.: 14500  
Chemical of Concern: TBC,TFN,ODZ,PPN; Habitat: A; Effect Codes: MOR; Code: NO COC(MLN),OK(TBC,TFN,ODZ,PPN).

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Chemical of Concern: CYP,PSM,ES,AZ,MLN; Habitat: T; Code: NO FOREIGN(CYP,PSM,AZ,MLN).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 36729  
Chemical of Concern: AND,CHD,DDT,DLD,ES,EN,HPT,HCCH,TXP,DZ,PRN,As,Cu,CBL,NAPH,PAH,PCP,CN,PQT,PPB,PPHD,Zineb,MRX,ABT,DMT,DS,FNT,PSM,Naled,OXD,THM,HCCH,MLN,MP,FPN,ETN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLO; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLO; Habitat: T

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Chemical of Concern: MLN,TMP,FNTH,DDVP,FNT; Habitat: A; Code: NO DURATION.

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EcoReference No.: 93266  
Chemical of Concern: AZ,MP,TBF,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(TBF,TARGET-AZ,MP,MLN).

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Chemical of Concern: MLO; Habitat: T

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EcoReference No.: 98906  
Chemical of Concern: TBF,PPB,PMR,MLN; Habitat: T; Effect Codes: MOR,BCM; Code: TARGET(PMR,MLN),NO MIXTURE(TBF,PPB).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 88980  
Chemical of Concern: MLN,DDVP; Habitat: T; Effect Codes: CEL,ACC; Code: NO CONTROL(MLN,DDVP).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: DZ,ADC,AND,AZ,BMY,HCCH,CBL,CHD,CPY,CPYM,CMPH,DDT,DMB,DLD,DMT,DU,ES,EN,ETN,MLN,MTZ,MXC,MRX,PPHD,PCL,TDZ,TXP,TPR,TFL,PCB; Habitat: AT

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EcoReference No.: 2161  
Chemical of Concern: MLN,DDT,PRN; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 89315  
Chemical of Concern: PMR,DEF,PFF,SPS,CYP,FNV,MLN,AZ,MP,ACP,CBL,MOM; Habitat: T; Effect Codes: BCM,MOR; Code: LITE EVAL CODED(MOM,MP),OK(ALL CHEMS),NO MIXTURE(FNV,MLN,CYP,PMR).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 103403  
Chemical of Concern: TCF,MLO; Habitat: T; Code: NO FOREIGN(TCF,MLO).

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EcoReference No.: 99907  
Chemical of Concern: DM,PMR,LCYT,CYF,MLN,DDT,PPX; Habitat: AT; Effect Codes: MOR,CEL; Code: TARGET(PMR,MLN).

Geiger, C. P. and Calabrese, E. J. (1985). The Effects of Five Widely Used Pesticides on Erythrocytes of the Dorset Sheep, an Animal Model With Low Erythrocyte Glucose-6-Phosphate Dehydrogenase (G-6-Pd) Activity. *J. ENVIRON. SCI. HEALTH, PART A. Vol. A20, no. 5, pp. 521-527. 1985.*

Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 91381  
Chemical of Concern: TCF,PRN,Naled,MXC,MOM,MLN,FNF,DINO,AZ,BMY,Captan,CBL,CBF,DDT,DZ,DDVP,DMT,DCF,ES,PSM; Habitat: T; Effect Codes: REP; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 62411  
Chemical of Concern: ABT,PRN,MP,CPY,MLN; Habitat: AT; Effect Codes: MOR; Code: TARGET MLN,MP.

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Chemical of Concern: DS, MLN; Habitat: T; Code: TARGET (DS,MLN).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: PMR,PIM,MLN,DFZ,DCF,DZ,CHX,BMY,Captan,CTN,DINO,FRM,IPD,ILL,Maneb,OXC,TFR,VCZ,Zineb,CBL; Habitat: T; Effect Codes: POP,REP; Code: NO ENDPOINT(ALL CHEMS),NO COC(QOC,BS).

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EcoReference No.: 36967  
Chemical of Concern: CBL,MLN,CMPH; Habitat: T; Effect Codes: POP; Code: OK TARGET(MLN).

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EcoReference No.: 6495  
Chemical of Concern: FNTH,PRN,MLN,ACP; Habitat: A; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(ACP),NO ENDPOINT(MLN,PRN,FNTH).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 99670  
Chemical of Concern: MLN,PMR,TMP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,PMR,TMP).

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EcoReference No.: 17815  
Chemical of Concern: CPY,MLN,DLD,FNTH,TMP,DDT; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(TARGET-MLN).

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Chemical of Concern: MLN; Habitat: T; Code: NO ENDPOINT(MLN).

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EcoReference No.: 103641  
Chemical of Concern: TCF,MP,MLN,FNT,FNTH; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(TCF,MP,MLN,FNT).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 10440  
Chemical of Concern: MLN,DZ,ABT,FNT,CPY,CBL; Habitat: A; Effect Codes: MOR,POP; Code: LITE EVAL CODED(DZ),OK(ABT,FNT,CPY),NO ENDPOINT(CBL,MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP,GRO; Code: NO CROP(TARGET-MLN).

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 5145  
Chemical of Concern: 24DXY,CBL,CPY,MLN,DDT,EN; Habitat: A; Effect Codes: BEH; Code: NO CONTROL(CBL),NO ENDPOINT(MLN).

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EcoReference No.: 15137  
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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DDT,CBL,EN,MLN; Habitat: A; Effect Codes: BEH; Code: NO CONTROL(MLN),OK(DDT,CBL,EN).

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EcoReference No.: 5146  
Chemical of Concern: 24DXY,CBL,CPY,MLN,DDT,EN; Habitat: A; Effect Codes: BEH; Code: LITE EVAL CODED(CBL),OK(ALL CHEMS),NO ENDPOINT(MLN).

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EcoReference No.: 101295  
Chemical of Concern: Captan,BMY,MZB,PSM,MLN,IMC,ES,DMT,CBL,AZ,CYP,LCYT,GFS; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(Captan,MZB,MLN,DMT,CBL,AZ,CYP,GFS,ES,PSM,IMC).

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EcoReference No.: 87391  
Chemical of Concern: GYP,LCYT,CYP,ES,PHSL,IMC,MLN,CPR; Habitat: T; Effect Codes: POP; Code: NO COC(CTN),OK(ALL CHEMS),OK TARGET(CYP,MLN).

Hardt, I. H., Wolf, C., Gehrcke, B., Hochmuth, D. H., Pfaffenberger, B., and Huehnerfuss, H. (1994). Gas Chromatographic Enantiomer Separation of Agrochemicals and Polychlorinated Biphenyls Pcbs Using Modified Cyclodextrins. *Hrc journal of high resolution chromatography* 17: 859-864.

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EcoReference No.: 93233  
Chemical of Concern: MLN,ACP,TBF,ES,MTM; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL(MLN,ACP,TBF,MTM,ES).

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EcoReference No.: 99406  
Chemical of Concern: TCF,DM,CYP,FNV,PMR,MVP,ACP,CPY,CBL,MTM,Naled,MOM,CPYM,ES,AZ,PSM,MLN; Habitat: T; Effect Codes: ACC,MOR; Code: TARGET(TCF,MVP,ACP,CPY,CBL,MTM,Naled,MOM,CPYM,ES,AZ,PSM,MLN)OK(DM,CYP,FNV,PMR).

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EcoReference No.: 49989  
Chemical of Concern: TVP,PSM,TBO,FNF,AZ,ES,MDT,CPY,DMT,MXC,CHD,PHSL,PIRM,TCF,PRN,ACP,MLN,DDT,CBL,Naled,CBF,CPY,EN,MOM; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(MLN,Naled,CBF,CBL,AZ,TCF,DMT),OK(MDT,MOM,DDT,CPY).

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EcoReference No.: 72206  
Chemical of Concern: DZ,DDT,AND,PSM,PMR,MVP,PRN,CPY,Naled,MOM,MLN,DM,CYP,CBF,AZ,FNV,FNF,ACP,AND; Habitat: T; Effect Codes: MOR; Code: LITE EVAL CODED(CBF),OK TARGET(DZ,CYP,MLN,Naled,ACP,AZ,PMR),OK(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN,CBF,CPY,BTY,EPTC; Habitat: T

Haseman, J. K. and Clark, A. M. (1990). Carcinogenicity Results for 114 Laboratory Animal Studies Used to Assess the Predictivity of Four In Vitro Genetic Toxicity Assays for Rodent Carcinogenicity. *Environ.Mol.Mutagen.Suppl.* 18: 15-31.

EcoReference No.: 97464  
Chemical of Concern: ASCN,BNZ,DCB,12DPA,13DPA,ISO,MLO,MEL,MEN,PL,PPO,TCDD,3CE,Ziram,DCB,RTN,4CE,LIM,DDVP,24DC,OXT; Habitat: T; Effect Codes: CEL; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLO; Habitat: T

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EcoReference No.: 5761  
Chemical of Concern: DDT,TPN,FNTH,24OXY,PRN,PAQT,CBL,PYN,Zineb,CZE,FBM,PPX,PPX,MOM,ES,TBC,MLN,FE,SZ,NaPCP,Captan,AND,DZ,ETN,FLAC,PPN,FNT,RTN,EN; Habitat: A; Effect Codes: MOR; Code: NO FOREIGN,NO CONTROL,(ALL CHEMS).

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Chemical of Concern: MLN,MLO; Habitat: T; Effect Codes: BCM,MOR; Code: NO CONTROL(MLN,MLO).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: T; Code: TARGET(MLN).

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EcoReference No.: 63029  
Chemical of Concern: MLN; Habitat: T; Code: TARGET(MLN).

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EcoReference No.: 89660  
Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BCM,PHY; Code: NO CONTROL,NO ENDPOINT(MLN).

He, F. (1999). Biological Monitoring of Exposure to Pesticides: Current Issues. *Toxicology letters (shannon)* 108: 277-283.

Chemical of Concern: MLN; Habitat: AT

Hebling-Beraldo, M. J. A. and Vicelli-Zanao, R. C. (1983). Effects of Organophosphorus and Carbamates Insecticides on the Oxygen Consumption of Atta Laevigata (F. Smith, 1858) and Atta Sexdens Rubropilosa Forel 1908 (Hymenoptera, Formicidae). *CIENC. CULT. Vol. 35, no. 2, pp. 211-214. 1983.*

Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 37069  
Chemical of Concern: ADC,PPX,OXD,CPY,DEM,TMP,FNTH,MRX,PCB,ES,CHD,TXP,AND,EN,HPT,DDT,PRN,CBF,MLN,DCTP,DLD,ZnP,Hg; Habitat: T; Code: NO REVIEW(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLO; Habitat: AT

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EcoReference No.: 97683  
Chemical of Concern: MLN,EFX,DDT,PMR; Habitat: T; Effect Codes: MOR; Code: TARGET(MLN,EFX,PMR).

Hemingway, J., Akood, M., Lines, J. D., Curtis, C. F., and Davidson, G. (1980). Organophosphate and Carbamate Resistance and Susceptibility in the Adults and Larvae of Anopheles Species. *Trans.R.Soc.Trop.Med.Hyg.* 74: 677-678 (ABS).

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EcoReference No.: 101220  
Chemical of Concern: CPY,TMP,FNTH,FNT,PIRM,MLN,PPX,DDT; Habitat: T; Effect Codes: MOR,BCM; Code: TARGET(CPY,TMP,MLN,PIRM).

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Chemical of Concern: MLN,TMP; Habitat: A; Effect Codes: BCM,MOR; Code: NO CONTROL(MLN,TMP).

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EcoReference No.: 12529  
Chemical of Concern: DDT,PIRM,MLN; Habitat: A; Effect Codes: BCM; Code: NO CONTROL,ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: T; Code: NO MIXTURE.

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(MLN).

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Chemical of Concern: PPX,DM,PMR,FNTH,PIRM,FNT,MLN,PPB,TBF; Habitat: T; Effect Codes: MOR; Code: NO MIXTURE(TBF,PPB),NO CONTROL,NO ENDPOINT(PMR,MLN),TARGET(PIRM).

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Chemical of Concern: MLN,CYH,EFV,DS; Habitat: T; Effect Codes: POP; Code: OK(CYH,EFV,DS),NO CROP(TARGET-MLN).

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Chemical of Concern: NaBr,HCCH,MLN,DCB,PCP,DMT,PL; Habitat: A; Effect Codes: MOR,REP; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,CBL,DDT,HCCH,MXC,AND,CHD; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: FZFPB,MLN,IZT,IZP,IMB; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(FZFPB,MLN,IZT),NO IN VITRO(IZP,MB).

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Chemical of Concern: FNT,DDT,MLN; Habitat: T; Effect Codes: POP; Code: TARGET MLN.

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Chemical of Concern: MOM,CBL,PHSL,DZ,DEM,DMT,FNV,PMR,PPHD,MLN,PSM,AZ,MP,ES,MXC,FTTCl,DCF,CHX,PPG,FO,BMY,DOD,Maneb,THM,Captan,FBM,PAQT,GYP,SZ,DMZ,EPH,NAA,CaCl2; Habitat: T; Effect Codes: MOR,REP,POP; Code: NO ENDPOINT(ALL CHEMS),TARGET(MP).

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Chemical of Concern: FNTH,MLN; Habitat: T; Effect Codes: ACC; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 72098  
Chemical of Concern: DDT,DLD,HCCH,CPY,RSM,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(DDT,DLD,HCCH,CPY,RSM,MLN).

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 69759  
Chemical of Concern: BRSM,RSM,MLN; Habitat: T; Effect Codes: BCM,PHY,CEL; Code: LITE EVAL CODED(RSM),NO MIXTURE(MLN).

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Chemical of Concern: RSM,GYP,MLN,TBC,PPX,BDC; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(RSM),OK(ALL CHEMS),NO CONTROL(MLN).

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Chemical of Concern: As,Pb,Hg,Ni,Tl,MLN; Habitat: T

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Chemical of Concern: PTP,PPHD,MDT,IFP,FNF,FMP,EP,ACP,AZ,CPY,CMPH,DZ,DS,DDVP,DMT,FNTH,MLN,MP,MVP,Naled,PRN,PRT,PHSL,PSM,TBO,DEM,DS,ETN,SLCD; Habitat: T; Code: NO IN VITRO(MDT,FMP,ACP,AZ,CPY,DZ,DMT,MLN,MP,MVP,Naled,PRT,PSM,CMPH,TBO,PTP,EP,DDVP),METHODS(SLCD).

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Chemical of Concern: CBL,PRN,DZ,TBF,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(TBF,CBL,DZ,MLN).

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EcoReference No.: 75341  
Chemical of Concern: DCNA,NSA,DLN,VCZ,MLN; Habitat: T; Effect Codes: PHY,BCM; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: Naled,TCF,FNT,FNTH,MLN,MOM,CYF,CYP,FNV; Habitat: T; Effect Codes: MOR; Code: OK TARGET(ALL CHEMS),TARGET(Naled).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: DDT,DLD,CPY,FNT,MLN,TMP,PPX; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,HCCH,MZB,THM; Habitat: T; Effect Codes: REP,GRO; Code: OK(HCCH,THM),NO CROP(MLN,MZB).

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EcoReference No.: 18105  
Chemical of Concern: ZnP,TXP,STCH,EN,DDT,DLD,MLN,NaFA; Habitat: AT; Effect Codes: POP,MOR,ACC; Code: NO ENDPOINT(DDT,TXP,DLD,PRN,EN,MLN),CONTROL(DDT,TXP,STCH,ZnP,NaFA,PRN,EN),CONC(DDD).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BEH; Code: OK TARGET(MLN).

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Chemical of Concern: MP,PMR,CYH,CPY,MLN; Habitat: T; Effect Codes: POP; Code: OK(ALL CHEMS),OK TARGET(MLN),TARGET(MP).

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EcoReference No.: 88951  
Chemical of Concern: DMT,CPY,PMR,CYH,MLN,MP; Habitat: T; Effect Codes: POP; Code: OK(ALL CHEMS),OK TARGET(MLN),TARGET(MP).

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Chemical of Concern: MLN,FNT; Habitat: T; Effect Codes: MOR; Code: NO CONTROL,TARGET(MLN,FNT).

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Chemical of Concern: MLN,ES; Habitat: A; Effect Codes: REP,BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 89591  
Chemical of Concern: PPHD,MLN,ENV,DMT,OXD; Habitat: T; Effect Codes: POP; Code: OK(PPHD,FNV,DMT),NO ENDPOINT(TARGET-MLN,OXD).

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Chemical of Concern: MLN,PRN,DZ,AZ,FNT,MOM,CBL,ADC; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(MLN,DZ,FNT,MOM,CBL,ADC).

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Chemical of Concern: PMR,MOM,ACP,CBL,MLN,DDVP; Habitat: T; Effect Codes: POP; Code: OK(DDVP),OK TARGET(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,ENDPOINT(MLN).

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Chemical of Concern: DDT,MLN,CBL; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL),NO CONTROL(MLN,DDT).

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EcoReference No.: 74350  
Chemical of Concern: PIM,CPY,DMT,ACP,PPHD,FNV,PHSL,MOM,ADC,MLN,DEM,DS,OML,AZ,ES; Habitat: T; Code: OK TARGET(ADC,DMT,MLN,ACP,AZ),TARGET(MOM).

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Chemical of Concern: PRT,DS,MLN,FNT,CPY,ES; Habitat: T; Effect Codes: ACC,POP; Code: NO CONTROL(PRT,DS,MLN,FNT,CPY,ES).

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Chemical of Concern: Zineb,CBD,MZB,BMY,AZ,CBL,PSM,MLN,ES,CTZ,HTX,OTQ,PPG,DCF,IPD,CTN; Habitat: T; Effect Codes: POP,REP; Code: LITE EVAL CODED(CTN,MZB),OK(ALL CHEMS),OK TARGET(AZ,CBL,PSM,MLN,HTX).

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Chemical of Concern: CPY,MLN,PSM,DZ,DMT,CBL,PIM,MOM,ES,IMC,TMX,BFT; Habitat: T; Effect Codes: MOR; Code: TARGET(MLN,BFT,DZ,CBL,MOM) .

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Chemical of Concern: PMR,MLN,PYN; Habitat: AT; Effect Codes: MOR,POP; Code: OK(ALL CHEMS),TARGET MLN.

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Chemical of Concern: MLN,FNTH,ES,CBL,PHSL,PMR,FNV; Habitat: T; Effect Codes: POP; Code: LITE EVAL CODED(ES),TARGET(MLN,FNTH,CBL,PHSL,FNV),OK(PMR).

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Chemical of Concern: MLN; Habitat: T

Jin, O. and Kitos, P. (1996). Teratogenic Synergy Between a Thiocarbamate Herbicide and an Organophosphorus Insecticide. *Experimental biology 96, part ii, washington, d.c., Usa, april 14-17, 1996. Faseb journal* 10: A792.

Chemical of Concern: MLN; Habitat: T

Jinxiu, S., Bo, C., and Peipei, Y. (2005). Assessment on Acute Toxicity of Combined Pesticides. *J.Hyg.Res.(Wei Sheng Yan Jiu)* 29 : 65-68 (CHI) (ENG ABS).

Chemical of Concern: MOM,OMT,ACYP,DM,MP,DDVP,MTM,PFF,MLN; Habitat: T

Johansen, C. A., Kleinschmidt, M. G., Butler, L. I., McDonough, L. M., and Jackson, D. S. (1974). Adjuvants Decrease Insecticide Hazard to Honey Bees. *Bul.801,College of Agriculture Research Center, Washington State University* 7 p.

EcoReference No.: 37327  
Chemical of Concern: MLN,PRN,MP,CBL; Habitat: T; Effect Codes: MOR; Code: OK(CBL),NO CONTROL(MLN,PRN,MP).

Johansen, C. A., Mayer, D. F., Eves, J. D., and Kious, C. W. (1983). Pesticides and Bees. *Environ.Entomol.* 12: 1513-1518.

EcoReference No.: 37328  
Chemical of Concern: PPG,DEM,TCF,Naled,ACP,AZ,CBL,CBF,DDT,CYP,DZ,ES,EN,MLN,PRN,TDC,DMT,AND; Habitat: T; Effect Codes: MOR,BEH; Code: LITE EVAL CODED(Naled),NO CONTROL(ACP,AZ,CBL,CBF,CYP,DZ,MLN,DMT).

Johansen, N. G., Hutte, R. S., and Legier, M. F. (1991). A Gas Chromatography Detector Based on Chemiluminescence for the Determination of Pesticides. *Hall, j. R. And g. D. Glysson (ed.). Astm (american society for testing materials) special technical publication, 1102. Monitoring water in the 1990's: meeting new challenges* Symposium, denver, colorado, usa, june 11-14, 1990. Viii+618p. Astm: philadelphia, pennsylvania, usa. Illus. Isbn 0-8031-1407-9.; 0: 255-266.

Chemical of Concern: MLN; Habitat: T

Johnson, C. R. (1978). The Effect of Five Organophosphorus Insecticides on Survival and Temperature Tolerance in the Copepod, Macrocyclops albidus (Copepoda: Cyclopidae). *Zool.J.Linn.Soc.* 64: 59-62.

EcoReference No.: 5172  
Chemical of Concern: ABT,MLN,FNTH,MP,CPY; Habitat: A; Effect Codes: MOR,BEH; Code: OK(CPY,FNTH),NO ENDPOINT(ABT,MLN,MP).

Johnson, C. R. (1978). The Effects of Sublethal Concentrations of Five Organophosphorus Insecticides on Temperature Tolerance, Reflexes, and Orientation in Gambusia affinis affinis (Pisces: Poeciliidae). *Zool.J.Linn.Soc.* 64: 63-70.

EcoReference No.: 5149  
Chemical of Concern: MP,ABT,MLN,FNTH,CPY; Habitat: A; Effect Codes: BEH,ACC; Code: NO ENDPOINT(ALL CHEMS).

Johnson, D. R. and Studebaker, G. (1993). Control of Boll Weevils in Cotton, 1991. *Insectic.Acaric.Tests* 18: 228-229 (53F).

EcoReference No.: 90790  
Chemical of Concern: MLN,CYF,EFV,LCYT,MP,AZ,ES; Habitat: T; Effect Codes: POP; Code: OK TARGET,NO CROP(MLN,MP,EFV),OK TARGET(CYF,AZ).

Johnson, D. T. and Mayes, R. L. (1987). Blueberry, Fruitworm Insecticide Test, 1986. *Insectic.Acaric.Tests* 12: 77 (No. 072).

EcoReference No.: 88736  
Chemical of Concern: AZ,CBL,DZ,MLN,CPY; Habitat: T; Effect Codes: POP; Code: OK(CPY),OK TARGET(AZ,CBL,DZ,MLN).

Johnson, J. C., Van Emon Jm, Pullman, D. R., and Keeper, K. R. (1998). Development and Evaluation of Antisera for Detection of the O,O-Diethyl Phosphorothionate and Phosphorothionothiolate Organophosphorus Pesticides by Immunoassay. *Journal of agricultural and food chemistry* 46: 3116-3123.

Chemical of Concern: MLN; Habitat: AT

Johnson, P. D., Rimmer, D. A., and Brown, R. H. (1997). Adaptation and Application of a Multi-Residue Method for the Determination of a Range of Pesticides, Including Phenoxy Acid Herbicides in Vegetation, Based on High-Resolution Gel Permeation Chromatographic Clean-up and Gas Chromatographic Analysis With Mass-Selective Detection. *Journal of chromatography a* 765: 3-11.

Chemical of Concern: MLN; Habitat: T

Johnson, R. B. and Thompson, W. L. (1954). Studies on the Use of Malathion on Citrus. *Proc.Fla.State Hortic.Soc.* 44-49.

EcoReference No.: 57814  
Chemical of Concern: MLN,PRN; Habitat: T; Effect Codes: POP; Code: NO ECOSSL CHEM,NO ENDPOINT(PRN,TARGET-MLN).

Johnson, T. B. and Long, E. R. (1998). Rapid Toxicity Assessment of Sediments From Estuarine Ecosystems: a New Tandem in Vitro Testing Approach. *Environmental toxicology and chemistry* 17: 1099-1106.

Chemical of Concern: MLN; Habitat: A

Johnson, W. E., Fendinger, N. J., and Plimmer, J. R. (1991). Solid-Phase Extraction of Pesticides From Water: Possible Interferences From Dissolved Organic Material. *Anal chem* 63: 1510-1513.

Chemical of Concern: MLN; Habitat: A

Johnson, W. W. and Finley, M. T. (1980). Handbook of Acute Toxicity of Chemicals to Fish and Aquatic Invertebrates. *Resour.Publ.137, Fish Wildl.Serv., U.S.D.I., Washington, D.C* 98 p. (OECDG Data File) (Publ As 6797).

Chemical of Concern: EDT,RSM,Captan,CBF,CBL,DFZ,PSM,24DXY,ACP,ACR,AZ,BS,Captan,CMPH,CPY,DBN,DMB,DMT,DPDP,DS,DU,DZ,FO,GYP,HCCH,HXZ,MDT,MLN,MLT,MOM,MP,Naled,OYZ,PRT,SZ,TBC,TPR,As,Pb; Habitat: A

Johnston, G. (1995). The Study of Interactive Effects of Pollutants: A Biomarker Approach. *Sci.Total Environ.* 171: 205-212.

EcoReference No.: 59499  
Chemical of Concern: PCZ,MLN,CYP,DMT,DZ; Habitat: T; Effect Codes: BCM; Code: NO CONTROL(ALL CHEMS),MIXTURE(PCZ).

Johnston, G., Walker, C. H., and Dawson, A. (1994). Interactive Effects Between EBI Fungicides (Prochloraz, Propiconazole and Penconazole) and OP Insecticides (Dimethoate, Chlorpyrifos, Diazinon and Malathion) in the Hybrid Red-Legged Partridge. *Environ.Toxicol.Chem.* 13: 615-620.

EcoReference No.: 67235  
Chemical of Concern: CPY,DMT,PCZ,DZ,MLN; Habitat: T; Effect Codes: BCM; Code: NO MIXTURE(PCZ),NO ENDPOINT(CPY,DZ,PCZ,DMT,MLN).

Johnston, G., Walker, C. H., and Dawson, A. (1994). Interactive Effects of Prochloraz and Malathion in Pigeon, Starling and Hybrid Red-Legged Partridge. *Environ.Toxicol.Chem.* 13: 115-120.

EcoReference No.: 90780  
Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM,GRO; Code: NO ENDPOINT(MLN).

Johnston, Gail (1995). The Study of Interactive Effects of Pollutants: a Biomarker Approach: Environmental Toxicology: Hazards to the Environment and Man in the Mediterranean Region. *Science of The Total Environment* 171: 205-212.

Chemical of Concern: MLN; Habitat: T

Joia, B. S. and Kalra, R. L. (1974). Note on the Dissipation of Ultra-low-Volume Formulations of Endosulfan, Fenitrothion, Fenthion and Malathion on Okra. *Indian.J.Agric.Sci.* 44: 897-898.

Chemical of Concern: FNT, MLN; Habitat: T; Code: CROP(MLN).

Joia, B. S., Ramzan, M., and Chawla, R. P. (1997). Evaluation of Some Insecticides Applied to Wheat Crop as Pre-Harvest Treatment for Protection Against Stored Grain Insect Pests. *Int.Pest Control* 39: 54-55.

EcoReference No.: 89269  
Chemical of Concern: DM,FPP,CYP,FNV,MLN,PMR,PIRM,FYT; Habitat: T; Effect Codes: PHY; Code: OK(ALL CHEMS),NO CROP,NO TARGET(MLN,MP).

Jokanovic, M. and Maksimovic, M. (1995). A Comparison of Trimedoxime, Obidoxime, Pralidoxime and HI-6 in the Treatment of Oral Organophosphorus Insecticide Poisoning in the Rat. *Arch.Toxicol.* 70: 119-123.

EcoReference No.: 74883  
Chemical of Concern: DMT,DDVP,FNT,PPHD,FNTH,TCF,PRIM,DZ,PRT,DEM,AZ,DPY,PSM,PHSL,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

Jones, F. W. (1996). Multiresidue Analysis of Pesticides in Wool Wax and Lanolin Using Gel Permeation and Gas Chromatography. *Journal of agricultural and food chemistry* 44: 3197-3201.

Chemical of Concern: MLN; Habitat: T

Jones, F. W. (1997). The Removal of Pesticide Residues From Wool Wax by Solvent Extraction. *Journal of the american oil chemists' society* 74: 1241-1245.

Chemical of Concern: MLN; Habitat: AT

Jones, F. W. (1997). Removal Pesticides From Wool Wax by Continuous Countercurrent Dual-Solvent Extraction. *Journal of the american oil chemists' society* 74: 1247-1253.

Chemical of Concern: MLN; Habitat: AT

Jones, K. H., Sanderson, D. M., and Noakes, D. N. (1968). Acute Toxicity Data for Pesticides (1968). *World Rev.Pest Control* 7: 135-143.

EcoReference No.: 70074  
Chemical of Concern: 24DXY,ABT,ACL,ADC,AMTL,AMTR,AND,ASM,ATN,ATZ,AZ,BFL,BMC,BMN,BS,BTY,Captan,CBL,CCA,CHD,CMPH,CPP,CPY,CQTC,CTHM,Cu,CuFRA,DBN,DCB,DCNA,DDD,DDT,DDVP,DEM,DINO,DLD,DMB,DMT,DOD,DPP1,DQTBr,DS,DU,DZ,DZM,EDT,EN,EP,EPTC,ES,ETN,FLAC,FMU,FNF,FNT,FNTH,Folpet,HCCH,HPT,LNR,Maneb,MCB,MCPA,MCPB,MCPP1MDT,MLH,MLN,MLT,MRX,MTM,MVP,MXC,Naled,NPM,PB,PCH,PCL,PCP,PEB,PHMD,PHSL,PMT,PPHD,PPN,PPX,PPZ,PQT,PRN,PRO,PRT,PYN,PYZ,RTN,SFT,SID,SZ,TCF,TFN,THM,TRB,TRL,TXP,VNT,Zineb; Habitat: T; Effect Codes: MOR; Code: NO PUBL AS(24DXY,ABT,ACL,AMTL,AMTR,ASM,ATN,AZ,BFL,BMC,BMN,BS,BTY,CCA,CMPH,CPP,CPY,CQTC,CTHM,DBN,DCB,DCNA,DDT,DINO,DOD,DPP1,DQTBr,DU,DZM,EP,EPTC,ES,FMU,FNF,FNT,Folpet,HCCH,HPT,LNR,MCB,MCPP1,MLT,MP,MRX,MTM,MXC,Naled,NPM,Pb,PCH,PCL,PEB,PHSL,PPN,PPZ,PQT,PRO,PYN,PYZ,RTN,RYA,SFT,SID,TFN,THM,TRL,VNT),NO CONTROL,DURATION(ALL CHEMS).

Jones, K. L. and Heath, R. T. (1989). The Effect of Malathion on Dissolved Organic Phosphorus Compounds of an Acid Bog Lake. *Ohio Journal of Science [OHIO J. SCI.]. Vol. 89, no. 2, 44 p. 1989.*

Chemical of Concern: MLN; Habitat: AT

Jones, V. P. and Parrella, M. P. (1984). The Sublethal Effects of Selected Insecticides on Life Table Parameters of Panonychus citri (Acari: Tetranychidae). *Can.Entomol.* 116: 1033-1040.

EcoReference No.: 71000  
Chemical of Concern: MLN,PMR,OML; Habitat: T; Effect Codes: REP,POP; Code: OK TARGET(MLN),OK(PMR,OML).

Jongenotter, G. A., Kerkhoff, M. At, Van, D. E. R. Knaap H Cm, and Vandeginste, B. Gm ( Automated on-Line Gpc-Gc-Fpd Involving Co-Solvent Trapping and the on-Column Interface for the Determination of Organophosphorus Pesticides in Olive Oils.

Chemical of Concern: MLN; Habitat: T

Jortner, Bernard S. (2006). The Return of the Dark Neuron. A Histological Artifact Complicating Contemporary Neurotoxicologic Evaluation. *NeuroToxicology* 27: 628-634.

Chemical of Concern: MLN; Habitat: AT

Joseph, S. R., Mallack, J., and George, L. F. (1972). Field Applications of Ultra Low Volume Malathion to Three Animal Species. *Mosq.News* 32: 504-506.

EcoReference No.: 2901  
Chemical of Concern: MLN; Habitat: AT; Effect Codes: MOR; Code: NO ENDPOINT(MLN).

Joshi, P. C. and Misra, R. B. (1986). Evaluation of Chemically-Induced Phototoxicity to Aquatic Organism Using Paramecium as a Model. *Biochem.Biophys.Res.Commun.* 139: 79-84.

EcoReference No.: 12021  
Chemical of Concern: 24DXY,DMT,HCCH,MLN,DOD,Cu,Zn,MZB,ANT,PHE; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(24DXY,DMT,HCCH,MLN,DOD,Cu,Zn,MZB).

Joshi, P. K. and Pandey, A. K. (1985). Preliminary Studies on the Impact of Malathion on Urophysis of a Fish, Oxygaster bucaila. *In: R.C.Dalela and U.H.Mane (Eds.), Proc.5th Natl.Symp.Assess.Environ.Pollut., Dec.20-22, 1984, Aurangabad, India* 253-255.

EcoReference No.: 4945  
Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

Joshi, S. C., Pandit, H. K., Singh, S. K., and Vijaywat, J. K. (1991). Malathion Induced Changes in the Oxygen Consumption Rhythm of the Fish Mystus tengara (Ham.). *J.Hydrobiol.* 7: 67-69.

EcoReference No.: 14730  
Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

Juhler, R. K. (1997). Optimized Method for the Determination of Organophosphorus Pesticides in Meat and Fatty Matrices. *Journal of chromatography a* 786: 145-153.

Chemical of Concern: MLN; Habitat: T

Juhler, R. K., Lauridsen, M. Green, Christensen, M. Rindom, and Hilbert, G. (1999). Pesticide Residues in Selected Food Commodities: Results From the Danish National Pesticide Monitoring Program 1995-1996. *Journal of aoac international* 82: 337-358.

Chemical of Concern: MLN; Habitat: T

Jurs, P. C., Stouch, T. R., Czerwinski, M., and Narvaez, J. N. (1985). Computer-Assisted Studies of Molecular Structure-Biological Activity Relationships. *J chem inf comput sci* 25: 296-308.

Chemical of Concern: MLN; Habitat: AT

Jyothish, B., Sukumaran, T., and Ravindran, A. (1994). Effect of Pesticides on Opercular Movement and Lethality of Three Teleost Fishes. *In: Proc.6th Kerala Science Congress, Jan.27-29, 1994, Thiruvananthapuram, State Committee on Science, Technology and Environment, Kerala, India* 52-54.

EcoReference No.: 17099  
Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY,MOR; Code: NO ENDPOINT,CONTROL(MLN).

Kabra, R. A. and Kulkarni, K. M. (1991). Cythion Toxicity Effects on Food Consumption and Growth in the Fish, Channa orientalis (Sch.). *Adv.Biosci.* 10: 61-68.

EcoReference No.: 14188  
Chemical of Concern: MLN; Habitat: A; Effect Codes: GRO,BEH,PHY; Code: NO ENDPOINT(MLN).

Kachroo, A. (2002). Age Related Differences in the Metabolism of, and Protection Against a Variety of Organophosphorus Compounds in the Rat, Rattus norvegicus. *Ph.D.Thesis, Mississippi State Univ.,MS* 122 p.

Chemical of Concern: PCB,DZ,AZ,DMT,DDVP,CMPH,MLO,CPYO; Habitat: T; Code: NO IN VITRO(DZ,AZ,DMT,CMPH,MLO,CPYO),NO RESIDUE(PCB).

Kadoum, A. M. and Sae, S. W. ( A Simple Agar Gel Electrophoretic Method to Investigate Esterase Inhibition in Certain Stored Grain Insects by Malathion and Its Oxygen Analogue. *Bull. Environ. Contam. Toxicol.; 5(3): 237-42, 1970; (ref:5)*.

Chemical of Concern: MLO; Habitat: T

Kahn, E., Berlin, M., Deane, M., Jackson, R. J., and Stratton, J. W. (1992). Assessment of Acute Health Effects From the Medfly Eradication Project in Santa Clara County, California. *Arch environ health* 47: 279-284.

Chemical of Concern: MLN; Habitat: T

Kahru, A., Tomson, K., Pall, T., and Kulm, I. (1996). Study of Toxicity of Pesticides Using Luminescent Bacteria Photobacterium Phosphoreum. *Water Science and Technology* 33: 147-154.

Chemical of Concern: MLN; Habitat: T

Kakar, K. L., Bhalla, O. P., and Singh, A. K. (1990). Studies on Pest Complex of French Beans and Their Control Under Mid-Hill Regions in Himachal Pradesh India. *Indian J.Plant Prot.* 18: 71-75.

EcoReference No.: 89369  
Chemical of Concern: DCF,PPHD,DCF,FNT,MLN; Habitat: T; Effect Codes: POP; Code: OK(DCF,PPHD,DCF,FNT),OK TARGET(MLN).

Kalac, J. (1974). Ucinky Organofosforovych Zlucenin Na Aktivitu Niektorych Enzymov Zazivacieho Traktu. The Effect of Organo Phosphorus Compounds on the Activity of Some Digestive Enzymes. *Cesk.Hyg.* 19: 355-362 (CZE) (ENG ABS).

EcoReference No.: 8592  
Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

Kamal, M. A. (1997). Effect of Malathion on Kinetic Parameters of Acetylcholinesterase (Ec 3.1.1.7) In Vitro. *Biochemistry and molecular biology international* 43: 89-97.

Chemical of Concern: MLN; Habitat: T

Kamimura, K. and Maruyama, Y. (1983). Appearance of Highly Resistant Strain of Culex Tritaeniorhynchus to Organophosphorus Insecticides. *Japanese Journal of Sanitary Zoology [JAP. J. SANIT. ZOOL.]. Vol. 34, no. 1, pp. 33-37. 1983.*

Chemical of Concern: MLN; Habitat: AT

Kamiya, M. and Kameyama, K. (1998). Photochemical Effects of Humic Substances on the Degradation of Organophosphorus Pesticides. *Chemosphere* 36: 2337-2344.

Chemical of Concern: MLN; Habitat: AT

Kammerbauer, J. and Moncada, J. (1998). Pesticide Residue Assessment in Three Selected Agricultural Production Systems in the Choluteca River Basin of Honduras. *Environmental pollution* 103: 171-181.

Chemical of Concern: MLN; Habitat: A

Kamrin, M. A. (1997). Pesticide Profiles Toxicity Environmental Impact and Fate.  *Kamrin, m. A. (Ed.). Pesticide profiles: toxicity, environmental impact, and fate. Xix+676p. Crc press publishers inc.: Boca raton, florida, usa* London, england, uk. Isbn 1-56670-190-2.; 0: Xix+676p.

Chemical of Concern: MLN; Habitat: AT

Kan-Do Office and Pesticides Team (1995). Accumulated Pesticide and Industrial Chemical Findings From a Ten-Year Study of Ready-to-Eat Foods. *Journal of aoac international* 78: 614-630.

Chemical of Concern: MLN; Habitat: AT

Kanazawa, J. (1987). Biodegradability of Pesticides in Water by Microbes in Activated Sludge Soil and Sediment. *Environ monit assess* 9: 57-70.

Chemical of Concern: MLN; Habitat: A

Kandoria, J. L. and Singh, H. ( Effect of Ulv Sprayers on the Size and Density of Droplets of Malathion Lvc. *Indian j entomol; 46 (1). 1984 (recd. 1987). 92-100.*

Chemical of Concern: MLN; Habitat: AT

Kannan, N., Anbalagan, K., and Jayaraman, J. (1980). Impact Monitoring of Pesticide Residues: Rice Plant (Oryzae sativa L.). *Proc.Indian Acad.Sci.* 89: 123-130.

EcoReference No.: 103626  
Chemical of Concern: MP,FNT,MLN,ES; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(ES,MP,MLN,FNT).

Kano, R., Lok, C. K., Hayashi, A., and Shinonaga, S. (1978). Resistant Level of Houseflies to Seven Kinds of Synthetic Insecticides and Effect of Synergists to the Malathion Resistant Strain in Singapore . *Bull.Tokyo Med.Dent.Univ.* 25: 143-146 .

EcoReference No.: 70019  
Chemical of Concern: RSM,DZ,DDT,MLN,DDVP; Habitat: T; Effect Codes: MOR; Code: OK(DDT,DDVP),OK TARGET(DZ,RSM,MLN).

Kao, Chao-Hsing and Sun, Chih-Ning (1991). In Vitro Degradation of Some Organophosphorus Insecticides by Susceptible and Resistant Diamondback Moth. *Pesticide Biochemistry and Physiology* 41: 132-141.

Chemical of Concern: MLN; Habitat: T

Kao, L. R., Motoyama, N., and Dauterman, W. C. ( 1985). Multiple Forms of Esterases in Mouse, Rat, and Rabbit Liver, and Their Role in Hydrolysis of Organophosphorus and Pyrethroid Insecticides. *Pesticide Biochemistry and Physiology* 23: 66-73.

Chemical of Concern: MLN; Habitat: T

Kao, S. S. and Tzeng, C. C. (1985). Results of Laboratory Tests on the Toxicity of 24 Pesticides Against Pupae of Trichogramma Chilonis Ishii (Hymenoptera, Trichogrammatidae). *Bulletin of the Society of Entomology National Chung Hsing [BULL. SOC. ENTOMOL., NATL. CHUNG HSING UNIV.]. Vol. 18, pp. 13-24. 1985.*

Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: AT

Kapoli, Panagiota, Axarli, Irene A., Platis, Dimitris, Fragoulaki, Maria, Paine, Mark, Hemingway, Janet, Vontas, John, and Labrou, Nikolaos E. (2008-). Engineering sensitive glutathione transferase for the detection of xenobiotics. *Biosensors and Bioelectronics* 24: 498-503.

Chemical of Concern: MLN; Habitat: T

Kapusta, G. and Rouwenhorst, D. L. (1973). Interaction of Selected Pesticides and Rhizobium japonicum in Pure Culture and Under Field Conditions. *Agron.J.* 65: 112-115 .

EcoReference No.: 50827  
Chemical of Concern: MXC,MLN,HCCH,DS,DLD,DZ,CBL,AZ,AND,ATZ,ACR,DCPA,DMB,LNR,NPM,PCH,TFN,VNT; Habitat: T; Effect Codes: PHY,POP,GRO; Code: OK(DS,CBL),NO ENDPOINT(ALL CHEMS)//No Media:Agar, No OM,pH,ERE.

Karimov, B. K., Keyser, D., Huehnerfuss, H., and Moeller, K. (1998). Combined Toxicity of Heavy Metals and Pesticides on Embryonic and Larval Stages of Carp (Cyprinus Carpio L.) In Salinized Water.

Chemical of Concern: MLN; Habitat: A

Karpas, Z. and Pollevoy, Y. (1992). Ion Mobility Spectrometric Studies of Organophosphorus Compounds. *Anal chim acta* 259: 333-338.

Chemical of Concern: MLN; Habitat: AT

Kashiwada, S., Mochida, K., Ozoe, Y., and Nakamura, T. (1995). Contribution of Zooplankton to Disappearance of Organophosphorus Insecticides in Environmental Water. *J.Pestic.Sci.* 20: 503-512.

EcoReference No.: 90667  
Chemical of Concern: MLN,FNT,DZ; Habitat: A; Effect Codes: MOR,ACC,PHY; Code: NO CONTROL(MLN).

Kashyap, N. and Walia, P. C. (1984). Biological Efficacy of Malathion and Fenitrothion Against Some Pests of Okra. *In: A.Regupathy, K.Rajakkannu, and S.Chelliah (Eds.), Pesticides and Environment, Natl.Semin., Aug.4-5, 1983, Dep.of Agric.Entomol.Ctr.for Plant Prot.Stud., Coimbatore, India* 17-20.

EcoReference No.: 89237  
Chemical of Concern: MLN,FNT; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(FNT,TARGET-MLN).

Kashyap, N. P. and Hameed, S. F. (1982). Evaluation of Some Organophosphorus Insectidies Against Dacus cucurbitae Coquillett on Peach. *Proc.Indian Acad.Sci.* 91: 45-55.

EcoReference No.: 89183  
Chemical of Concern: FNT,FNTH,MLN,MP; Habitat: T; Effect Codes: MOR,ACC; Code: OK(FNT,FNTH),NO TARGET,NO CROP(MLN,MP).

Kashyap, N. P. and Walia, P. C. ( Dissipation of Malathion and Fenitrothion Residues on Okra Fruits. *Regupathy, a., K. Rajukkannu and s. Chelliah (ed.). Pesticides and environment; national seminar, aug. 4-5, 1983. Iii+146p. Department of agricultural entomology centre for plant protection studies: coimbatore, india. Illus. Paper.; 0 (0). 1984 (recd. 1985). 23-25.*

Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP; Code: TARGET MLN.

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Chemical of Concern: CPYM,FNT,MP,FNTH,DZ,CPY,PRN,MLN,PSM,MDT,DDVP,TVP,CBL,BDC,PIRM,PIM,MOM; Habitat: T; Effect Codes: MOR; Code: TARGET(MLN,DZ,CBL,MOM,MP).

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Chemical of Concern: FNT,DDVP,MLN,MVP,PRN,DMT,TCF; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(DMT,DDVP,TCF,FNT,MLN).

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EcoReference No.: 35309  
Chemical of Concern: FNT,DDVP,MLN,MVP,PRN,DMT; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(DMT),OK(FNT,DDVP,MVP,PRN),OK TARGET(MLN).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: SFR,MOM,CBL,DDVP,DMT,MLN,PPHD,CPY,PHSL,DCF,ES; Habitat: T; Effect Codes: MOR,REP; Code: OK TARGET(ALL CHEMS).

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EcoReference No.: 5036  
Chemical of Concern: CdCl,PbN,HgCl2,AMSV,PL,NAPH,EN,Urea,DU,MLN,CuS; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DDVP,CYP,FNV,MLN,FNT; Habitat: T; Effect Codes: POP; Code: TARGET(MLN,FNV,DDVP,FNT).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: DS,DZ,HCCH,CBL,DLD,DMT,DDT,FNT,MLN,Captan,ALSV; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: QZFE,FZFB,FZFPB,PIRM,CYP,PMR,MLN,DM,FNT; Habitat: T; Effect Codes: POP,PHY; Code: OK(CYP,PMR,FNT),NO ENDPOINT(QZFE,FZFB,FZFPB,PIRM),NO CROP(TARGET-MLN).

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Chemical of Concern: DZ,CBL,PSMO,ETN,TBTO,PPHD,Ziram,DMT,ES,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,TBTO,CBL,Ziram,DMT,DZ,PSMO,ES).

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EcoReference No.: 65414  
Chemical of Concern: ABT,MLN,PPX,MXC,CPYM; Habitat: A; Effect Codes: POP; Code: OK TARGET(MLN),OK(ALL CHEMS).

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Chemical of Concern: Naled,MLN; Habitat: A; Effect Codes: MOR,POP; Code: NO ENDPOINT,NO CONTROL(Naled,MLN).

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Chemical of Concern: ES,DLD,DDT,PMSM,FNT,DZ,CPY,CPYM,MLN,CBL,PPX,BFT,PMR,DM,ACT,HMN; Habitat: T; Effect Codes: MOR; Code: TARGET(MLN,BFT,DZ,CBL).

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Chemical of Concern: MLN,AZ,CYF,LCYT; Habitat: T; Effect Codes: POP; Code: OK TARGET(MLN,AZ,CYF).

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EcoReference No.: 100430  
Chemical of Concern: MP,MPO,MLN,CPYM,PIRM,FNT,DZ,CBL,FNV,PMR,PTPMR,BRSM,PPB,ES; Habitat: T; Effect Codes: MOR,ACC; Code: LITE EVAL CODED(ES),TARGET(MP,MPO,MLN,CPYM,PIRM,FNT,DZ,CBL,FNV,BRSM),OK(PMR,PTPMR,PPB,FNT).

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EcoReference No.: 89151  
Chemical of Concern: PPB,MLN,FNP,HFP,CLFP; Habitat: T; Effect Codes: GRO; Code: OK(HFP,CLFP),OK TARGET(FNP),NO MIXTURE(PPB,MLN).

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Chemical of Concern: MLN,PRN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(PRN).

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EcoReference No.: 8017  
Chemical of Concern: PRN,AZ,MLN,PRT,Naled; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(PRT,AZ,MLN,Naled).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN,Zn; Habitat: A; Effect Codes: MOR,REP,GRO; Code: NO CONTROL(MLN).

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Chemical of Concern: AZ,Captan,CBL,CMPH,HCCH,MLN,Naled,SZ,PNB,ACL,WFN,FUR,DPC,RTN,NaN3,PCP,NaPCP,AsAC,ACL,ATZ,Se,Zn,DZ,PYPG; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL,ENDPOINT(AZ,Captan,CBL,CMPH,HCCH,MLN,Naled,SZ,PNB,ACL,WFN,FUR,DPC,RTN,NaN3,PCP,NaPCP,AsAC,ACL,ATZ,Se,Zn,DZ,PYPG).

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Chemical of Concern: DDT,PRN,TXP,CPY,DLD,AND,HPT,HCCH,CHD,MXT,ABT,ES,Naled,CBL,ATM,ETN,AZ,PRT,DDVP,PSM,DZ,MLN,CTN,EN; Habitat: A; Effect Codes: NOC,GRO,MOR; Code: LITE EVAL CODED(Naled),NO ENDPOINT,CONTROL(MLN).

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Chemical of Concern: DZ,HCCH,MLN,EN,HPT,DDT,CHD,DLD,TXP,AND; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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Chemical of Concern: DZ,HCCH,MLN,DLD,CHD; Habitat: A; Effect Codes: ACC,MOR; Code: NO FOREIGN//NO ENDPOINT(MLN).

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EcoReference No.: 99803  
Chemical of Concern: PPX,ACP,MLN,CBL,PMR,DMT,DZ,CPY; Habitat: T; Effect Codes: POP,REP,MOR; Code: TARGET(ACP,MLN,CBL,PMR,DMT,DZ,CPY).

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Chemical of Concern: TBF,MLN; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL(MLN),NO MIXTURE(TBF).

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EcoReference No.: 610  
Chemical of Concern: AZ,CBL,HCCH,MLN,MP,TXP; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(AZ,CBL),NO CONTROL(MLN,MP,TXP,HCCH).

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Chemical of Concern: MLN; Habitat: T; Code: NO IN VITRO(MLN).

Machbub, B., Ludwig, H. F., and Gunaratnam, D. ( 1988). Environmental Impact From Agrochemicals in Bali Indonesia. *Environ monit assess* 11: 1-24.

Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

MacPhee, C. and Ruelle, R. (1969). Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America. *Bull.No.3, Forest, Wildl.and Range Exp.Stn., Univ.of Idaho, Moscow, ID* 112 p.

EcoReference No.: 15148  
Chemical of Concern: PNB,24DXY,Captan,CBL,DOD,HCCH,MLN,NYP,CST,WFN,FUR,Cu,CuS,NaN3,CuCl,PCP,ACL,ATM,Se,DBAC,Zn,DZ,Pb,DCB,IAA,ANT,PAH,PYR,CHR,PPG,SFL,CIT,DU,IND,AAH,ES,DCF; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL(ALL CHEMS),NO ENDPOINT,NO CONTROL(SFL,DZ,CIT,DU,IND,AAH,ES,MLN,DCF).

MacPhee, C. and Ruelle, R. (1969). Lethal Effects of 1888 Chemicals upon Four Species of Fish from Western North America. *Bull.No.3, Forest, Wildl.and Range Exp.Stn., Univ.of Idaho, Moscow, ID* 112 p.

EcoReference No.: 15148  
Chemical of Concern: PNB,24DXY,Captan,CBL,DOD,HCCH,MLN,NYP,CST,WFN,FUR,Cu,CuS,NaN3,CuCl,PCP,ACL,ATM,Se,DBAC,Zn,DZ,Pb,DCB,IAA; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL,NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN,TMP; Habitat: T; Code: NO MIXTURE(TMP,MLN).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: AT

Mahmood, T. and Alam, Z. ( 1986). Life History and Field Evaluation of Some Insecticides Against Cabbage Butterfly. *Pak.J.Agric.Res.* 7: 307-311.

Chemical of Concern: MLN; Habitat: T; Code: NO TARGET,NO CROP(MLN).

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EcoReference No.: 89287  
Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM,POP; Code: NO CROP(TARGET-MLN).

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 37801; Habitat: T; Effect Codes: BCM,GRO; Code: NO COC(MLN).

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Chemical of Concern: ACP,BFT,CYP,DMT,FPP,MLN,MOM,PPB,PYT; Habitat: T; Effect Codes: MOR,REP; Code: LITE EVAL CODED(PPB,DMT),OK(ALL CHEMS),OK TARGET(CYP,BFT,ACP),TARGET MLN,MOM.

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 95187  
Chemical of Concern: FNT,MP,MLN,PPHD,CBL,DMT,HCCH,ES,DEM; Habitat: T; Effect Codes: POP; Code: EFFICACY(MP,MLN,CBL,DMT,FNT,ES).

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EcoReference No.: 10887  
Chemical of Concern: ATZ,HCCH,MLN,ADC,AMTR; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(ATZ,ADC,MLN,HCCH,AMTR).

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EcoReference No.: 15240  
Chemical of Concern: PPX,TMP,CPY,CBL,MLN; Habitat: A; Effect Codes: GRO; Code: LITE EVAL CODED(CBL),NO ENDPOINT(MLN,PPX,TMP,CPY).

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Chemical of Concern: MLO; Habitat: AT

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EcoReference No.: 11028  
Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 62600  
Chemical of Concern: Zineb,DINO,DCF,CU,ES,MOM,CBL,FNV,PHSL,CYP,DM,DMT,MLN,CPY,MP,FNTH,DDVP,PPHD,FVL,ACP,MZB,CBD; Habitat: T; Effect Codes: MOR; Code: LITE EVAL CODED(CTN,MZB),OK TARGET(CBL,MOM,MLN,MP,DMT),OK(ALL CHEMS).

Mani, M. and Krishnamoorthy, A. (1996). Response of the Encyrtid Parasitoid, Tetracnemoidea indica of the Oriental Mealybug Planococcus lilacinus to Different Pesticides. *Indian J.Plant Prot.* 24: 80-85.

EcoReference No.: 67219  
Chemical of Concern: TDF,PPHD,DMT,ES,DDVP,FNV,CYP,DM,MP,FNTH,MLN,PHSL,CBL,FVL,CPY,AZD,FSTAI,Captan,Ziram,MZB,DINO,Cu,CTN,DCF; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),TARGET(MLN,CBL,MP).

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EcoReference No.: 75493  
Chemical of Concern: ES,CPY,CBL,DMT,DCF,MLN,PHSL,FNT,DEM; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN,DMT,CBL,CPY).

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EcoReference No.: 11530  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY,BEH,REP; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: POP; Code: NO ABSTRACT,NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC,PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 37823  
Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MLN).

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EcoReference No.: 10656  
Chemical of Concern: Cl,TFM,CBL,PMR,ATM,MLN,CN,CuS,RTN,Cu; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),LITE EVAL CODED(OW-TRV-Cu).

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EcoReference No.: 10212  
Chemical of Concern: Mn,MLN,Naled,ATM; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(Mn,MLN,Naled,ATM).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: 24DXY,Captan,DDT,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(24DXY,Captan,DDT,MLN).

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Chemical of Concern: MLN,CuCl, DLD, PAQT; Habitat: A; Effect Codes: BCM; Code: LITE EVAL CODED(CuCl),NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T

Marty, M. A., Dawson, S. V., Bradman, M. A., Harnly, M. E., and Dibartolomeis, M. J. ( Assessment of Exposure to Malathion and Malaoxon Due to Aerial Application Over Urban Areas of Southern California. *J expo anal environ epidemiol. 1994 jan-mar; 4(1):65-81. [Journal of exposure analysis and environmental epidemiology]: J Expo Anal Environ Epidemiol*.

Chemical of Concern: MLO; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN,MLO; Habitat: A; Effect Codes: MOR,BCM,ACC; Code: NO CONTROL(MLN,MLO).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 9634  
Chemical of Concern: DZ,HCCH,MLN,DDT,HPT,DDVP,DLD; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: DDVP,DZ,Naled,FNT,MLN; Habitat: T; Effect Codes: PHY; Code: NO ENDPOINT,CONTROL(DZ,Naled,MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: FTTCl,MOM,YN,MLN,MXC,FPN; Habitat: T; Effect Codes: POP; Code: TARGET(MOM,MLN).

Mayer, D. F. and Johansen, C. A. (1989). Bee Protection in Urban Environments. *Am.Bee J.* 129: 106-108.

Chemical of Concern: AZ,HCCH,MLN,CBL,DS,DZ; Habitat: T; Code: NO REVIEW(DZ,AZ,MLN,CBL,DS).

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EcoReference No.: 88509  
Chemical of Concern: ES,HCCH,FVL,CYP,CYH,ACP,CPY,DZ,MLN,MTM,Naled,OXD,TCF,MOM,OML,TDC,BFT,CYF,PMR; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS).

Mayer, F. L. Jr. (1974). Pesticides as Pollutants. *In: B.G.Liptak (Ed.), Environmental Engineer's Handbook, Chilton Book Co., Radnor, PA* 405-418 (Publ in Part As 6797).

EcoReference No.: 70421  
Chemical of Concern: AND,CHD,DDT,DLD,ES,EN,HPT,TXP,DZ,CPY,PRN,CBL,ACL,ATZ,Cu,EDT,SZ,As,MLN,Captan,Naled; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(AND,CHD,DDT,DLD,ES,EN,HPT,TXP,DZ,CPY,PRN,CBL,ACL,ATZ,Cu,EDT,SZ,As,MLN,Captan,Naled).

Mayer, F. L. Jr. and Ellersieck, M. R. (1986). Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. *Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC* 505 p. (USGS Data File).

EcoReference No.: 6797  
Chemical of Concern: EDT,RSM,SZ,24DXY,ACP,ACR,ADC,ATM,ATN,ATZ,AZ,BS,CaPS,Captan,CBF,CBL,CMPH,CQTC,CPY,CuS,DBN,DFZ,DMB,DMT,DOD,DPDP,DS,DU,DZ,FO,GYP,HCCH,HXZ,IGS,LNR,MBZ,MCPB,MDT,MLN,MLT,MOM,MP,MTL,NaN3,Naled,OYZ,PCP,PEB,PAQT,PRT,PSM,Folpet,PYN,CYT,DMM,EFS,NAA,NTP,PMR,PPB,TFN,WFN,RSM,RTN,ALSV,Se,DBAC,Zn,As,MTPN,DCB,MTAS,OXD; Habitat: A; Effect Codes: MOR,PHY; Code: LITE EVAL CODED(MTAS,MTPN,DCB,DZ,IGS,ATZ,MTL,MLT,CBF,ADC,MOM,PPB,SZ,DMT,WFN,RTN,CuS, DOD,NaN3,DMB,RSM,CaPS,MCPB, NaPCP,PCP,AMSV,ALSV,PRT,ATM,CQTC,ATN,DBAC),OK(ALL CHEMS),NO CONTROL(Naled,BS,OXD,Captan,MLN).

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EcoReference No.: 88040  
Chemical of Concern: TDC,CBF,MLN,CBL,CYF; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS,TARGET-CBL,MLN,TDC).

Mazzarri, M. B. and Georghiou, G. P. (1995). Characterization of Resistance to Organophosphate, Carbamate, and Pyrethroid Insecticides in Field Populations of Aedes aegypti from Venezuela. *J.Am.Mosq.Control Assoc.* 11: 315-322.

EcoReference No.: 74860  
Chemical of Concern: PPB,PIRM,TMP,DDT,CYH,PMR,CPY,MLN,PPX; Habitat: T; Effect Codes: MOR; Code: OK(ALL CHEMS),NO MIXTURE(PPB),TARGET(MLN).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 103374  
Chemical of Concern: TBF,PBO,LCYT,MLN,Naled,FNTH,RSM,DM,PPB,DDT,PMR,CPY; Habitat: AT; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(TBF),OK(DDT,PPB),NO ENDPOINT(MLN,Naled,FNTH,RSM,DM,PMR,CPY).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 90679  
Chemical of Concern: PRN,MLN,MP,DZ,AZ,CBL; Habitat: T; Effect Codes: GRO,PHY,MOR,BCM,REP; Code: NO MIXTURE(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: CPY,MLN; Habitat: T; Effect Codes: MOR; Code: TARGET(MLN),OK(CPY).

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Chemical of Concern: ALD,DLD,HPT,EN,CHD,MP,Naled,DMT,AZ,MLN,CBL; Habitat: T; Effect Codes: MOR; Code: OK(ALL CHEMS),OK TARGET(DMT,MLN,AZ,CBL),TARGET(Naled,MP).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: TFN,ACL,TXP,ES,HPT,MLN,HCCH,AZ,EN,DZ,CBL,Captan,ATZ,PCB,Cl,Hg,Zn,Ni,Pb,Cr,Cu,Cd; Habitat: A

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL,ENDPOINT,MIXTURE(MLN).

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Chemical of Concern: MLO; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: DCTP,PPHD,DDT,MLN,DMT,DLD; Habitat: T; Effect Codes: MOR; Code: NO MIXTURE(MLN,DMT).

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EcoReference No.: 13003  
Chemical of Concern: AZ,DMT,DZ,MLN,MP,FNTH,EPRN,DDVP,FNT; Habitat: A; Effect Codes: MOR; Code: NO DURATION(ALL CHEMS),NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP; Code: OK TARGET(MLN).

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Chemical of Concern: TCF,FNT,DMT,MP,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL,NO ENDPOINT(MLN),NO REVIEW(MP,DMT,FNT,TCP).

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Chemical of Concern: MLN,OML,ACP,DMT,CPY,MTM,DS,TDC,AZ; Habitat: T; Effect Codes: POP; Code: OK TARGET(ALL CHEMS).

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EcoReference No.: 13776  
Chemical of Concern: MLN,CPY,FNTH,FNT,ABT,PRN; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 89368  
Chemical of Concern: PPB,EFV,MLN; Habitat: T; Effect Codes: MOR; Code: OK(EFV),NO CONC(MLN),MIXTURE(PPB).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 69363  
Chemical of Concern: DZ,CBL,CPY,MLN; Habitat: T; Effect Codes: POP; Code: OK TARGET(CBL,DZ),OK(ALL CHEMS),TARGET MLN.

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN).

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 12421  
Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BEH; Code: NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO ENDPOINT,CONTROL(MLN).

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EcoReference No.: 90654  
Chemical of Concern: HCCH,ES,MP,MLN,PRT,CBF; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MP,MLN,PRT),OK(CBF).

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Chemical of Concern: MLO; Habitat: AT

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Chemical of Concern: Captan,MLN; Habitat: A

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Chemical of Concern: CBL,DZ,HCCH,MLN,PPB,PYN,RTN,ATN,AND,DDT,DLD,MXC; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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Chemical of Concern: ACP,CBL,MLN,AZ,DZ,CYP,ADC; Habitat: T; Effect Codes: POP; Code: OK TARGET(ACP,ADC,CBL,MLN,DZ),OK(AZ,CYP).

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Chemical of Concern: FVL,ETN,DEM,DDVP,CBL,MOM,AZ,MLN,DMT,CPY,DZ,PRN,BMY,FNV,CYP,PHSL,ES,HCCH,DCF; Habitat : T; Effect Codes: MOR; Code: TARGET(FVL,DDVP,CBL,AZ,MLN,DMT,CPY,DZ,BMY,FNV,CYP,ES,DCF).

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Chemical of Concern: MLN,FNV,CYP,DM; Habitat: T; Effect Codes: MOR,REP; Code: OK TARGET(MLN,FNV,CYP).

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Chemical of Concern: DMT,CYP,DDT,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 89593  
Chemical of Concern: DDT,MLN,TMP,AZM,CYP; Habitat: A; Effect Codes: MOR; Code: OK(DDT,TMP,AZM),OK TARGET(MLN,CYP).

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Chemical of Concern: MLN,HCCH; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN,HCCH).

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EcoReference No.: 2162  
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Chemical of Concern: PRB,EMMB,THO,ACT,EFX,TDL,PIM,PHSL,PIRM,DMT,FNTH,MLN,DDVP,ACT,LUF,TCF,CYP,ES,SS,IMC,FVL,PMR,CBL,MOM,ALP,FNT,MDT,CPY,FF,DZ,BFT; Habitat: T; Effect Codes: MOR; Code: TARGET(,MLN,DZ,CBL,MOM).

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Chemical of Concern: CBL,MLN; Habitat: A; Effect Codes: BEH; Code: NO ENDPOINT(CBL,MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: CBL,AZ,MLN,FTTCl,MDT,CYT; Habitat: T; Effect Codes: POP; Code: OK(FTTCl,MDT,CYT),OK TARGET(CBL,AZ,MLN).

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Chemical of Concern: CBL,ADC,MLO,CPY,CPYO; Habitat: T; Effect Codes: BCM,GRO; Code: LITE EVAL CODED(CPY),NO IN VITRO(CBL,ADC,MLO,CPYO).

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Chemical of Concern: MLO; Habitat: T

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EcoReference No.: 38043  
Chemical of Concern: DCTP,DZ,CBL,PIRM,PPHD,MTM,PRN,PRT,MP,CMPH,MVP,MLN,DMT,DDVP; Habitat: T; Effect Codes: BCM,GRO; Code: LITE EVAL CODED(DZ,CBL),NO ENDPOINT(DCTP,PIRM,PPHD,MTM,PRN,PRT,MP,CMPH,MVP,MLN,DMT,DDVP).

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EcoReference No.: 93301  
Chemical of Concern: MLN,CPY,AMZ,PMR,LCYT,PPB,DEET,CBL,TBF; Habitat: T; Effect Codes: MOR; Code: NO MIXTURE(PMR,PPB,TBF),NO CONTROL(MLN,CPY,CBL).

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Chemical of Concern: FNTH,DZ,TMP,CYP,PMR,DM,PPX,FNT,MLN; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(DZ,TMP,CYP,PMR,MLN).

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Chemical of Concern: 24DXY,MLN; Habitat: A; Effect Codes: MOR,BEH,POP,GRO,REP; Code: NO ENDPOINT(MLN).

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EcoReference No.: 52433  
Chemical of Concern: FNT,CPY,ABT,MLN,DMT,FNTH,DZ,DDT,CBL,Naled,DDVP; Habitat: T; Effect Codes: MOR,POP; Code: OK TARGET(DZ,Naled,DMT,MLN,CPY,CBL).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM,ACC; Code: NO ENDPOINT,NO CONTROL(MLN).

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Chemical of Concern: ZnCl,CuS,24D,MLN,CdN,EDTK; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ZnCl,MLN,24D),LITE EVAL CODED(CuS,CdN) .

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Chemical of Concern: MLN,TBF; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(TARGET-MLN),NO MIXTURE(TBF).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 11726  
Chemical of Concern: MLN,PMR,ES; Habitat: A; Effect Codes: REP; Code: NO ENDPOINT(MLN,PMR,ES).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLO; Habitat: AT

Ng, W., Teo, M., and Lakso, H. A. (1999). Determination of Organophosphorus Pesticides in Soil by Headspace Solid-Phase Microextraction. *Fresenius' journal of analytical chemistry* 363: 673-679.

Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 20030  
Chemical of Concern: MLN,CuS,NaPCP,Cr,Cd; Habitat: A; Effect Codes: MOR,GRO; Code: LITE EVAL CODED(CuS,NaPCP),NO ENDPOINT(MLN),OK(Cr,Cd).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MTM,MLN,ACP; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MTM,MLN,ACP).

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Chemical of Concern: DDVP,MLN,PHSL; Habitat: A; Code: NO FOREIGN,NO CONTROL(DDVP,MLN,PHSL).

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Chemical of Concern: MLN,CBF,CPY,BTY,EPTC; Habitat: T

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Chemical of Concern: MLO; Habitat: T

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EcoReference No.: 6956  
Chemical of Concern: MLN,NaPCP,Ag; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

Nishiuchi, Y. (1972). Toxicity of Pesticides to Some Water Organisms. *Bull.Agric.Chem.Insp.Stn.(Noyaku Kensasho Hokoku)* 12: 122-128 (JPN) (ENG TRANSL).

EcoReference No.: 10258  
Chemical of Concern: 3CE,AC,AMTL,AMTR,AND,As,ATZ,BMC,BS,Captan,CBL,CPA,CPY,CTN,Cu,DBN,DCPA,DDT,DDVP,DLD,DMB,DMT,DPA,DSMA,DU,DZ,EDB,EDC,EN,EPTC,ES,ETN,Fe,FLAC,FML,FNT,FNTH,HCCH,Hg,HPT,LNR,MCAP,MCPB,MCPP1,MDT,MLN,MOM,MP,MTAS,NALED,Ni,NTCN,OPHP,Pb,PCB,PCP,PCZ,PEB,PHMD,PHSL,PHTH,PMT,PNB,PPX,PPZ,PRN,PSM,PYN,SFL,SID,STREP,SZ,TBC,TFN,THM,TPE,TPH,TPM,TRN,Zn; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS)//NO RESIDUE.

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EcoReference No.: 15570  
Chemical of Concern: PSM,ETN,DZ,NaPCP,FNT,MLN,CBL; Habitat: A; Effect Codes: MOR; Code: NO FOREIGN,NO CONTROL(ALL CHEMS).

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EcoReference No.: 6954  
Chemical of Concern: ACP,ACR,ATZ,BMC,BT,Captan,CPY,CTN,Cu,CuOH,CuS,DMT,DU,DZ,Folpet,HCCH,LNR,MAL,MDT,MLN,MOM,PCP,PEB,PHMD,PMT,PNB,PPG,PQT,PSM,QOC,TBC,TFN,RTN,CuCl,PPZ,Zn,Ni,As,DCB; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,BMC,CTN,QOC,Captan,Folpet,ATZ),OK(ALL CHEMS).

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EcoReference No.: 15192  
Chemical of Concern: ATZ,Captan,CBL,CTN,DBN,DMB,DMT,DU,DZ,HCCH,LNR,MLN,MP,PMT,PSM,SZ,24DXY,MCPB,NaPCP,PPZ,ZIRAM,PRN,ETN,DDT,DLD,MCPA; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,Captan,CTN),OK(ALL CHEMS).

Nishiuchi, Y. and Hashimoto, Y. (1969). Toxicity of Pesticides to Some Fresh Water Organisms. *Rev.Plant Prot.Res.* 2: 137-139.

EcoReference No.: 2682  
Chemical of Concern: DDT,HCCH,PRN,MCPA,MLN,SZ,Captan,Ziram,24DXY,PPN,ATZ,NaPCP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

Nobel, A. (1993). Partition Coefficients N Octanol Water for Pesticides. *J chromatogr* 642: 3-14.

Chemical of Concern: MLN; Habitat: A

Noetzel, D., Ricard, M., and Heuser, L. (1992). Grasshopper Control in Conservation Reserve Program Land, 1991. *In: A.K.Burditt,Jr.(Ed.), Insecticide and Acaricide Tests, Volume 17, Entomol.Soc.of Am., Lanham, MD* 185-186.

EcoReference No.: 79759  
Chemical of Concern: MLN,ACP,EFV,CBL,CBF,CPY; Habitat: T; Effect Codes: POP; Code: LITE EVAL CODED(EFV),OK(ALL CHEMS),TARGET(MLN,ACP,CBL).

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EcoReference No.: 79758  
Chemical of Concern: CYH,MP,EFV,DMT,CYF,CBL,ACP,CBF,CPY,BFT,MLN; Habitat: T; Effect Codes: POP; Code: TARGET(MLN,EFV,CYF,BFT,ACP,CBL,MP).

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EcoReference No.: 79806  
Chemical of Concern: CBF,CBL,MP,CPY,DMT,CYF,MLN,MXC,CYH; Habitat: T; Effect Codes: POP; Code: TARGET(MLN,CYF,CBL,MP).

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EcoReference No.: 79804  
Chemical of Concern: ES,EFV,MLN,DMT,CYH,CPY,CBF; Habitat: T; Effect Codes: POP; Code: TARGET(MLN,EFV).

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EcoReference No.: 89094  
Chemical of Concern: DMT,MP,MLN,DS,CPY; Habitat: T; Effect Codes: POP; Code: OK(ALL CHEMS),TARGET(MLN,MP).

Noetzel, D. M. and Nygaard, C. (1987). Flea Beetle Control in Canola, 1985. *Insectic.Acaric.Tests* 12: 181 (No. 212).

EcoReference No.: 88715  
Chemical of Concern: CBF,CBL,PRT,ES,FNV,MLN; Habitat: T; Effect Codes: POP; Code: OK(ALL CHEMS),OK TARGET(CBL,MLN).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 64390  
Chemical of Concern: MOM,FNV,DM,AZ,PRM,PSM,FNT,PPX,TCF,MLN,CPYM,CPY,DMT; Habitat: T; Effect Codes: MOR; Code: OK TARGET(DMT,MLN,AZ),TARGET(MOM).

Norland, R. L., Mulla, M. S., Pelsue, F. W., and Ikeshoji, T. (1974). Conventional and New Insecticides for the Control of Chironomid Midges. *Proc.Ann.Conf.Calif.Mosq.Control Assoc.* 42: 181-183.

EcoReference No.: 5817  
Chemical of Concern: AZM,HCCH,DZ,MLN,ETN,AZ,MOM; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MOM,MLN),NO CONTROL(DZ,BRSM,RSM,AZ).

Norment, B. R. and Chambers, H. W. (1970). Joint Actions in Organophosphorus Poisoning in Boll Weevils. *J.Econ.Entomol.* 63: 499-502.

EcoReference No.: 92832  
Chemical of Concern: AZ,MP,MLN,TBF; Habitat: T; Effect Codes: MOR; Code: LITE EVAL CODED(TBF),TARGET(AZ,MP,MLN).

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EcoReference No.: 93245  
Chemical of Concern: MP,AZ,MLN,TBF; Habitat: T; Effect Codes: MOR; Code: LITE EVAL CODED(TBF),TARGET(MP,AZ,MLN).

Nowicki, T. W. (1980). Cleanup Procedure for Determination of Five Organophosphates in Rapeseed Extract. *Can.Plains Proc.* 9: 65-75.

Chemical of Concern: DS,CPY,MLN,DMT; Habitat: T; Code: NO IN VITRO(DS,MLN,CPY,DMT).

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EcoReference No.: 90204  
Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T; Code: TARGET(MLN).

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Chemical of Concern: DZ,PRN,DMT,MLN; Habitat: T

O'brien, R. D. ( Phosphorylation and Carbamylation of Cholinesterase. *Ann. N. Y. Acad. Sci.; 160(1), 204-14, 1969; (ref:25)* .

Chemical of Concern: MLO; Habitat: AT

O'Brien, R. D. (1961). Selective Toxicity of Insecticides. *Adv.Pest Control Res.* 4: 75-116.

Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLO; Habitat: AT

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EcoReference No.: 101202  
Chemical of Concern: TVP,CMPH,MLN,MXC; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(CMPH,TVP,MLN).

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Chemical of Concern: 24D,MLN,DDVP,DZ,PRT,PRN,CBL,CBF,PAQT; Habitat: T; Code: NO REVIEW.

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 88949  
Chemical of Concern: MLN; Habitat: T; Effect Codes: REP,MOR,GRO,PHY,CEL,BEH; Code: NO CONTROL(MLN).

Okumura, D., Melnicoe, R., Jackson, T., Drefs, C., Maddy, K., and Wells, J. (1991). Pesticide Residues in Food Crops Analyzed by the California Usa Department of Food and Agriculture in 1989. *Ware, g. W. (Ed.). Reviews of environmental contamination and toxicology, vol. 118. Ix+158p. Springer-verlag new york inc.: New york, new york, usa* Berlin, germany. Illus. Isbn 0-387-97447-4; isbn 3-540-97447-4.; 0: 87-152.

Chemical of Concern: MLN; Habitat: T

Okwelogu, T. N. (1968). The Toxicity of Malathion Applied to Washed Concrete. *J.Stored Prod.Res.* 4: 259-260.

EcoReference No.: 90663  
Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLO; Habitat: A

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EcoReference No.: 99162  
Chemical of Concern: TVP,CTN,FRM,FTF,Folpet,IPD,MZB,Maneb,PCZ,SFR,THM,TFR,VCZ,ATZ,BMC,24D,GFSNH,GYP,SZ,DCF,ES,FYC,HTX,MLN,MOM,MVP,OML,PMR,TFR,CBL,ACP,AZ,BFT,CPY,CYR,DU,DMT,DCF,DZ,DM,BMN,FZFB,MTSM,CQTC,ABM,AMZ,BPZ,CHX,CYP; Habitat: T; Effect Codes: REP; Code: NO ENDPOINT(TVP,CTN,FRM,Folpet,IPD,MZB,Maneb,PCZ,SFR,THM,VCZ,ATZ,BMC,24D,GFSNH,GYP,SZ,DCF,ES,DM,DCF, ES,FYC,HTX,MLN,MOM,MVP,OML,MP,PMR,TFR,CBL,ACP,AZ,BFT,CPY,CYR,DZ,DMT,DU,ES,FTF),TARGET(OML,DCF).

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EcoReference No.: 83211  
Chemical of Concern: 4AP,DCF,AND,ES,TXP,HCCH,MLN,PRN,SBDA,CBL,CBF,ALD ; Habitat: T; Effect Codes: MOR,BEH; Code: LITE EVAL CODED(4AP),OK(ALL CHEMS),TARGET(MLN,CBL).

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Chemical of Concern: DMBA,PAH,NSO,DLD,MLN,PPB,EN,DMT; Habitat: T; Effect Codes: CEL; Code: NO COC(ANT,PMR),OK TARGET(DMT,MLN),OK(PPB) .

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: CuS,MLN; Habitat: A; Effect Codes: BEH,GRO,MOR,PHY; Code: NO CONTROL,ENDPOINT(MLN,CuS).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 71060  
Chemical of Concern: CPY,CBL,MLN; Habitat: T; Effect Codes: MOR; Code: TARGET(MLN,CBL).

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EcoReference No.: 71063  
Chemical of Concern: CPY,CBL,MLN; Habitat: T; Effect Codes: MOR; Code: TARGET(MLN,CBL).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BCM,GRO,CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 88968  
Chemical of Concern: MLO,DZ,CPY,MTM; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(DZ,MLO),NO REVIEW(CPY,MTM).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: CEL,BCM; Code: TARGET MLN.

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Chemical of Concern: MLO; Habitat: AT

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EcoReference No.: 89032  
Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 89482  
Chemical of Concern: MLN,ES; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN,ES).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 16056  
Chemical of Concern: FNT,ANZ,DDVP,DLD,24DXY,CBF,CPY,CTN,DMT,DZ,HCCH,MLN,MLT,MP,MTM,PMT,TBC,DM,EFV,BPZ,PPN,OMT,PCH,FPP,NaPCP,CaPS,OMT,Zn,DDT,Zineb,PPHD,FNV,CYH,BTC,TDF,Ni,SFR,ES,TCF,CBD,BMY; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT,NO CONTROL(CPY,CBF),NO CONTROL(24DXY,DZ,MTM,SFR,DDVP,ES,TCF,FNT,CBD,BMY,PPN,MLN,PMT).

Pan, D. Y. and Liang, X. M. (1993). Safety Study of Pesticides on Bog Frog, a Predatory Natural Enemy of Pest in Paddy Field. *J.Hunan Agricult.Coll.* 19: 47-54 (CHI) (ENG ABS).

EcoReference No.: 16056  
Chemical of Concern: FNT,ANZ,DDVP,DLD,24DXY,CBF,CPY,CTN,DMT,DZ,HCCH,MLN,MLT,MP,MTM,PMT,TBC,DM,EFV,BPZ,PPN,OMT,PCH,FPP,NaPCP,CaPS,OMT,Zn,DDT,Zineb,PPHD,FNV,CYH,BTC,TDF,Ni; Habitat: A; Effect Codes: MOR; Code: NO FOREIGN,NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T

Pandey, P. K., Thakur, G. K., and Choudhary, B. P. (1988). Effect of Malathion and Metacercarial Infection on Liver Lipofuscin Accumulation of the Air-Breathing Fish Heteropneustes fossilis. *Environ.Ecol.* 6: 234-236.

EcoReference No.: 13226  
Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

Pandey, S. K. and Fatma, T. (2004). Toxicological Studies of Pesticides on Cytoplasmic Streaming in Nitella. *Indian J.Exp.Biol.* 42: 732-735.

EcoReference No.: 89761  
Chemical of Concern: 24DXY,DLD,MLN,MP,ES; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(ALL CHEMS).

Pannell, M., Gilbert, J. D., Gardiner, J., and Byard, R. W. (2001). Death Due to Malathion Poisoning. *Journal of Clinical Forensic Medicine* 8: 156-159.

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Chemical of Concern: FNT,MLN; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(FNT,MLN).

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Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN).

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EcoReference No.: 70791  
Chemical of Concern: RSM,DDT,HCCH,MOM,CYP,DM,BRSM,PMR,MLN,TCF,PTP,DFZ,CYR,PYN,PPX; Habitat: T; Effect Codes: MOR,POP; Code: OK TARGET(MOM),TARGET(MLN,CYP,RSM).

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EcoReference No.: 89596  
Chemical of Concern: DZ,DDVP,MLN,SFT; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(DZ,DDVP,MLN,SFT).

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EcoReference No.: 89595  
Chemical of Concern: CPY,ETN,PHSL,DCF,CBL,TXP,MLN,ES,DMT; Habitat: T; Effect Codes: POP; Code: OK(ALL CHEMS),OK TARGET(CPY,CBL,MLN,DMT).

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EcoReference No.: 78294  
Chemical of Concern: ATZ,PRN,DZ,Captan,CBL,MLN,24DXY,TXP,MXC; Habitat: A; Effect Codes: GRO; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: PRN,MLN,DZ; Habitat: A; Effect Codes: PHY,BCM; Code: NO CONTROL(PRN,MLN,DZ).

Parke, D. V., Dhami, M. Si, and Afzal, M. (1997). The Effect of Nutrition on Chemical Toxicity. *Drug metabolism and drug interactions* 13: 161-193.

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 88128  
Chemical of Concern: CBL,MLN,TUZ,MOM,MP,PMR; Habitat: T; Effect Codes: POP; Code: OK(MP,PMR,TUZ),TARGET(MLN,MOM,CBL,MP).

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EcoReference No.: 40526  
Chemical of Concern: PCB,Cd,MLN,CuS; Habitat: T; Effect Codes: POP; Code: LITE EVAL CODED(CuS),NO CONTROL(MLN),OK(DZ,Cd)//No pH=3.9 (EcoSSL)//NO SPECIES(PCB)//.

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Chemical of Concern: CBF,MLN; Habitat: A

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EcoReference No.: 102036  
Chemical of Concern: FAKS,KO,KLRT,FNT,MLN,DMT; Habitat: T; Effect Codes: MOR,POP,BEH; Code: LITE EVAL CODED(KO,FAKS),TARGET(FNT,MLN,DMT),NO CONTROL(KLRT).

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EcoReference No.: 102256  
Chemical of Concern: DCTP,TMP,DZ,CBF,FNT,MP,MLN,DLD; Habitat: AT; Code: NO REVIEW(ALL CHEMS).

Pasalu, I. C. and Bhatia, S. K. (1974). Laboratory Evaluation of Some Insecticides Against Malathion-Resistant and Susceptible Strains of Tribolium castaneum. *Bull.Grain Technol.* 12: 175-179.

Chemical of Concern: DS, MLN; Habitat: T; Code: TARGET (DS,MLN).

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Chemical of Concern: MLO; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 94002  
Chemical of Concern: MVP,PRN,MXC,DDT,EN,ES,AZ,MLN,Naled,CBL; Habitat: T; Effect Codes: POP,GRO,MOR; Code: TARGET(CBL,Naled,MLN,AZ,ES).

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EcoReference No.: 100484  
Chemical of Concern: MLN,FNTH,TMP,CPY; Habitat: T; Effect Codes: BCM; Code: NO CONTROL(MLN,TMP,CPY).

Patel, B. J. and Kaul, P. L. (1991). Hypercholesterolaemia in Experimental Malathion Toxicity in Kankrej Calves. *Indian J.Anim.Sci.* 61: 1204-1205.

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Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 89403  
Chemical of Concern: ES,MLN,DMT,CYP; Habitat: T; Effect Codes: MOR; Code: OK(ES,DMT,CYP),OK TARGET(MLN).

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Chemical of Concern: ACP,ES,MP,AND,CBL,MLN,HCCH,MTM; Habitat: T; Effect Codes: POP; Code: OK(ALL CHEMS),OK TARGET,NO CROP(CBL,MLN,MP).

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EcoReference No.: 89317  
Chemical of Concern: ES,MLN,DMT,ACP; Habitat: T; Effect Codes: POP; Code: OK(ES),OK TARGET(MLN,DMT,ACP).

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EcoReference No.: 5823  
Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 88129  
Chemical of Concern: LCYT,MLN,CYF,CBL; Habitat: T; Effect Codes: POP; Code: OK(LCYT,CYF),TARGET(CBL,MLN).

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EcoReference No.: 91053  
Chemical of Concern: HCCH,MLN,Captan; Habitat: T; Effect Codes: REP,PHY; Code: LITE EVAL CODED(Captan),NO MIXTURE(MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T; Code: NO FOREIGN(MLN) .

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Chemical of Concern: MLN,CuCl; Habitat: A; Effect Codes: BCM; Code: LITE EVAL CODED(CuCl),NO ENDPOINT(MLN).

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Chemical of Concern: TMP,PPX,BDC,MLO; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL(TMP,MLO).

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Chemical of Concern: SZ,24DXY,ATZ,AZ,DBN,DMT,MLN,CuS,CrAC,SFL,HgCl2,NYP,Cd,Pb,Maneb,DDT,FML,PRN,EPRN,DLD,DPDP,PAQT,PL,ACY,ES,HCCH,MCRE,Tl; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(AZ,ATZ,SZ,DMT,CuS,CrAC),OK(ALL CHEMS),NO CONTROL(MLN,MZB,Maneb).

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Chemical of Concern: MLN,PPHD,DMT,DFZ,ACP; Habitat: T; Effect Codes: MOR,POP; Code: OK TARGET(DMT,MLN,ACP).

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Chemical of Concern: FNV,MP,CPY,AZ,MLN,PMR,TXP,DCTP,MOM; Habitat: T; Effect Codes: MOR,GRO; Code: OK TARGET(FNV,MP,CPY,AZ,MLN,PMR).

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Chemical of Concern: PMR,PPB,PPX,DDT,SPS,MP,MLN; Habitat: T; Effect Codes: MOR; Code: OK(MP,SPS,PMR,DDT),NO MIXTURE(PPB),TARGET(MLN,MP) .

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Chemical of Concern: MLN,TKY,DFP,CSF,SZ,SXD,PPB,ABT; Habitat: T; Effect Codes: MOR,BCM,PHY; Code: LITE EVAL CODED(SZ),OK(ALL CHEMS),NO MIXTURE(MLN).

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Chemical of Concern: MLN,CHD; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MLN,CHD).

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Chemical of Concern: TMP,MLN,FNTH,FNT,CPY; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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EcoReference No.: 91102  
Chemical of Concern: FNTH,FNT,CPY,MLN,TMP; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(FNTH,FNT,CPY,MLN),OK(TMP).

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EcoReference No.: 87106  
Chemical of Concern: DEM,DMT,CBF,DCF,DZ,ES,CHX,MLN; Habitat: T; Effect Codes: POP; Code: OK TARGET(DZ,ADC,MLN), OK(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: FNT,MP,MLN,ES,PPHD,CBL,DMT; Habitat: T; Effect Codes: MOR; Code: OK(ALL CHEMS),OK TARGET(CBL),TARGET(MLN,MP).

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EcoReference No.: 14969  
Chemical of Concern: MP,DDT,PRN,HCCH,DMT,DLD,DDVP,CBL,MLN,SMT,AND,PPH,OXD; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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Chemical of Concern: ES,MLN; Habitat: T; Effect Codes: BCM; Code: OK(ES),NO CROP(MLN).

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Chemical of Concern: MLN,MP; Habitat: A; Effect Codes: GRO; Code: NO ENDPOINT(MLN).

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EcoReference No.: 859  
Chemical of Concern: 24DXY,MLN,MP,AND; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(MLN,24DXY,MP,AND).

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Chemical of Concern: MLN,ETN; Habitat: T; Effect Codes: PHY; Code: NO ENDPOINT(MLN,ETN).

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EcoReference No.: 2914  
Chemical of Concern: DLD,TCF,MXC,HCCH,MLN,CBL,DZ,CPY,DDT,FNTH,DDVP,PPX,FNT,TMP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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EcoReference No.: 90701  
Chemical of Concern: CF,CTC,HCCH,MXC,MRX,CHD,EN,HPT,DLD,AND; Habitat: T; Effect Codes: CEL,GRO; Code: NO COC(MLN).

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EcoReference No.: 71409  
Chemical of Concern: CPY,CYP,DM,PMR,MLN,PPB; Habitat: T; Effect Codes: MOR; Code: NO CONC(PPB),OK(PMR,TARGET-MLN,CYP).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BEH; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL,BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MZB,MLX,CBF,Captan,CYP,DMT,MLN,PSM,ES,PMR,FNV,DZ,PRN; Habitat: T; Effect Codes: ACC; Code: NO CONTROL(MZB,CBF,Captan,CYP,DMT,MLN,PSM,PMR,FNV,DS,DZ,ES).

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EcoReference No.: 66934  
Chemical of Concern: TMP,FNTH,MLN,CPY,DM,LCYT,CYP,PRIM,PPB,DEF; Habitat: T; Effect Codes: MOR; Code: OK(ALL CHEMS, EXCEPT PPB,DEF),NO MIXTURE(PPB,DEF),TARGET(MLN,CYP).

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Chemical of Concern: BMY,MLN,CYP,CBL; Habitat: T; Effect Codes: MOR; Code: OK(BMY,CYP,CBL),OK TARGET(MLN).

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EcoReference No.: 93073  
Chemical of Concern: MLN,AZ,DDVP,PRN,PPHD,DCTP,MVP; Habitat: T; Effect Codes: MOR,CEL,GRO,PHY; Code : NO ENDPOINT(MLN,AZ,DDVP,PRN,PPHD,DCTP,MVP),NO COC(TBF).

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Chemical of Concern: FNTH,DDT,MLN,Naled; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),TARGET(Naled).

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Chemical of Concern: EFV,CYF,PMR,MTM,CPY,MOM,ES,CBL,MLN,DZ,MP,AZ,FVL,MVP,DMT,MXC,OXD,Naled; Habitat: T; Effect Codes: POP; Code: OK TARGET(ALL CHEMS),TARGET(Naled,MP).

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Chemical of Concern: MDT,FNT,DDVP,TCF,TLM,EFX,CTD,IMC,TMX,LUF,TUZ,EMMB,SS,MBM,CFP,PMZ,DMT,ACP,MLN,MOM,PMR,CYR,FPN; Habitat: T; Effect Codes: MOR,GRO; Code: TARGET(EFX,DMT,ACP,MLN,PMR,CYR,FPN,IMC,MDT,DDVP,TCF,FNT,TUZ),NO ENDPOINT(TARGET-MOM).

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EcoReference No.: 94389  
Chemical of Concern: TFR,Captan,CBD,PPX,FNV,PIRM,PMR,HCCH,DCF,MOM,MLN,TDF,VCZ; Habitat: T; Effect Codes: MOR,REP; Code: NO CONTROL(ALL CHEMS),TARGET(PIRM,DCF).

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Chemical of Concern: SZ,EDT,24DXY,AZ,CBL,CMPH,CPY,DBN,DMB,DMT,DS,DU,DZ,HCCH,MLN,MLT,Naled,PAQT,PRT,TFN,RTN,NaN3,ATN,OXD,Captan; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL,AZ,DZ,MLT,SZ,DMT,RTN,NaN3,DMB,PRT,ATN),NO CONTROL(MLN,Naled,OXD,Captan).

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Chemical of Concern: 24DXY,AZ,CBL,CPY,DBN,DMT,DS,DU,DZ,HCCH,MLN,MLT,Naled,PYN,TFN,RTN,As,NaN3,ATN,OXD,Captan; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(Naled,OXD,Captan,MLN),LITE EVAL CODED(CBL,DZ,MLT,DMT,RTN,NaN3,ATN),OK(ALL CHEMS).

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Chemical of Concern: 24DXY,CBL,DBN,DU,DZ,HCCH,MLN,Naled,CYT,PYN,TFN,RTN,As; Habitat: A; Effect Codes: PHY; Code: NO CONTROL(24DXY,CBL,DBN,DU,DZ,HCCH,MLN,Naled,CYT,PYN,TFN,RTN,As).

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Chemical of Concern: PPN,DMB,24DXY,MZB,Zineb,Maneb,Captan,BMY,TCF,ACP,AZ,CBF,CPY,DZ,EN,MLN,MOM,MP,DS,FNTH,PMR,PRT,TFN,ETN; Habitat: T; Effect Codes: REP,CEL,PHY; Code: NO ENDPOINT(ALL CHEMS),NO BACTERIA(DZ,EN,PMR,MZB,Maneb,Zineb,24DXY,PPN,TFN,ETN).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN,TBO,CBF,CBL,BMY,ACO,MLX,PRT,Captan,GYP; Habitat: T; Effect Codes: PHY,BCM; Code: NO ENDPOINT(MLN,CBL,MLX,PRT,Captan,GYP,TBO,CBF).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: FNT,PRN,MLN,TBF,MP; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(PRN,MP,MLN,FNT),NO IN VITRO(TBF).

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EcoReference No.: 80745  
Chemical of Concern: MZB,THM,Al,CBD,MLN,CBF,TCMTB; Habitat: T; Effect Codes: GRO,POP,MOR,REP; Code : LITE EVAL CODED(TCMTB),NO CROP(MZB,MLN),OK(THM,Al,CBD,CBF).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,CEL; Code: NO CONTROL,NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: CYH,CYP,ES,FVL,MLN,FYT,FNV,DM; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS,TARGET-CYP,FVL,MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(MLN).

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EcoReference No.: 89611  
Chemical of Concern: PPB,MLN; Habitat: T; Effect Codes: CEL,PHY; Code: NO ENDPOINT(PPB,TARGET-MLN).

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EcoReference No.: 90672  
Chemical of Concern: MLN,ES; Habitat: A; Effect Codes: ACC; Code: NO CONTROL,NO ENDPOINT(MLN,ES).

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EcoReference No.: 18418  
Chemical of Concern: MLN,PRN,PHSL,CBL; Habitat: A; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(CBL),NO ENDPOINT(MLN,PRN,PHSL).

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Chemical of Concern: Cd,Zn,CuCl,Pb,MLN,CBL,EPRN,PHSL; Habitat: AT; Effect Codes: BCM; Code: NO ENDPOINT,CONTROL(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: Ziram,AN,BZO,BZC,Captan,THM,ZINEB,CYT,SFL,MAL,MRX,ACL,MLN,ABT,CBZ,MCB,CBL,CMPH,HCCH,EN,AND,ES,NP,TCF,CPY,DDVP,PPHD,DCTP,DS,PRT,DMT,AZ,PSM,ETN,DEM,DZ,FNTH,MP,NCTN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS),NO COC(4AP).

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EcoReference No.: 35426  
Chemical of Concern: ADC,CST,MOM,CPC,ZnP,DOD,MLN,Cu,AQS,CuCO,RSM,ACL,4AP,DZ,As,IAA,CBL,DNB,Captan,Folpet,CAP; Habitat: T; Effect Codes: MOR; Code: NO CONTROL,ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 74836  
Chemical of Concern: CBF,PYT,MTM,ACP,CPY,DEM,MLN,CBL,FNV,PAQT,GYP,SMM ; Habitat: T; Effect Codes: PHY; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: CTN,Captan,BMY,FNV,SXD,DCF,MLN,BT,TFN,ACR,Maneb,EPTC,PNB,ES,DZ,CBL; Habitat: T; Effect Codes: BCM,GRO; Code: LITE EVAL CODED(DZ),NO CROP(CTN,Captan,MLN,Maneb),OK(ALL CHEMS,TARGET-CBL).

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EcoReference No.: 6615  
Chemical of Concern: RSM,SZ,CBL,CPY,HCCH,MLN,MP,Naled,24DXY,MCPB,ATM; Habitat: A; Effect Codes: SYS,ACC,MOR,BCM,POP; Code: NO CONTROL(RSM,SZ,CBL,CPY,HCCH,MLN,MP,Naled,24DXY,MCPB,ATM).

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EcoReference No.: 91309  
Chemical of Concern: ETN,CBL,DDVP,TCF,PSM,Naled,MLN; Habitat: T; Effect Codes: MOR,BEH; Code: OK TARGET(CBL,PSM,MLN,Naled).

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EcoReference No.: 4909  
Chemical of Concern: ES,MLN,FNV; Habitat: A; Effect Codes: MOR,PHY; Code: NO CONTROL(ES,MLN,FNV).

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EcoReference No.: 64293  
Chemical of Concern: PPX,PMR,MLN,DM,CYP,CPY,BDC,PYN,PPB,DEF; Habitat: T; Effect Codes: MOR; Code: OK(ALL CHEMS),NO MIXTURE(PPB,DEF),TARGET(MLN,CYP).

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Chemical of Concern: MLN,PRT,DCTP,DZ,CBL,MTM; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: FNT,MLN,DDT,DLD,HCCH,PPX,FNTH,Naled,CPY,MP; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(TARGET-MLN,Naled,CPY,MP).

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Chemical of Concern: TMT,CPY,ABT,FNTH,PRN,FNT,DDVP,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: DDT,EN,CBL,ES,DZ,TXP,HPT,MLN; Habitat: T; Effect Codes: POP; Code: OK(ALL CHEMS),OK TARGET(DZ,MLN,CBL).

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Chemical of Concern: DDT,MLN,DZ,CYP,FNT,DLD,PMR,PPX; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: MLN,PMR,PRN,MOM,CBL,DDT,DLD,NCTN,CPY,CBF; Habitat: T; Effect Codes: ACC; Code: NO CONTROL(ALL CHEMS).

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Chemical of Concern: RSM,DZ,MLN,FNTH,DM,BRSM; Habitat: T; Effect Codes: MOR; Code: OK(ALL CHEMS),OK TARGET(MLN,DZ,RSM).

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Chemical of Concern: DDT,MLN,CYF,DM,TMP,FNTH; Habitat: AT; Effect Codes: MOR; Code: NO ENDPOINT(MLN,CYF,TMP).

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Chemical of Concern: MLN,FNV,DCM,CYP,PHSL,FNTH,FNT,DDVP,CPY,ES,HCCH; Habitat: T; Effect Codes: POP; Code: NO CROP(MLN),OK(FNV,CYP,CPY).

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Chemical of Concern: MOM,MLN,PRN,AZ; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN,AZ),TARGET(MOM).

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Chemical of Concern: PMR,EFV,CYF,CPY,MP,CBF,MOM; Habitat: T; Effect Codes: POP; Code: OK TARGET(MOM,MP,EFV),NO COC(MLN).

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EcoReference No.: 90653  
Chemical of Concern: CYF,MXC,PMR,EFV,DMT,CBF,PSM,CPY,MLN,MP; Habitat: T; Effect Codes: POP; Code: OK TARGET(ALL CHEMS).

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EcoReference No.: 100506  
Chemical of Concern: TMP,CBF,PMR,FNT,CYH,CYP,DM,FNTH,CPY,DZ,Naled,PIRM,MLN; Habitat: A; Code: NO FOREIGN(TMP,CBF,PMR,FNT,CYH,CYP,CPY,DZ,Naled,PIRM,MLN).

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EcoReference No.: 63055  
Chemical of Concern: MOM,DS,DMT,CPY,MLN,PRN,CBF; Habitat: T; Effect Codes: MOR; Code: OK TARGET(DMT,MLN),TARGET(MOM).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL,BEH; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: MOR,GRO,BEH; Code: NO CONTROL,ENDPOINT(MLN).

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Chemical of Concern: DDT,MLN,HCCH; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(DDT,MLN,HCCH).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

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Chemical of Concern: ES,CBL,FNT,PHSL,MLN,MP,FNV,PMR,CYP,DCM,CPY; Habitat: T; Effect Codes: POP; Code: OK(ALL CHEMS),OK TARGET(CBL),NO CROP(TARGET-MLN),NO CROP(MP).

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Chemical of Concern: DDT,CBL,MLN,FNT,TCF,ES; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN,CBL).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM,CEL,PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DDT,DLD,MLN,FNT,PPX,PMR; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,FNT,PMR).

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Chemical of Concern: DDT,DLD,MLN,FNT,PPX,PMR; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,FNT,PPX,PMR).

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Chemical of Concern: DMT,MLN; Habitat: A; Effect Codes: BCM,MOR; Code: NO ENDPOINT(MLN),OK(DMT).

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EcoReference No.: 89013  
Chemical of Concern: MLN,PSH,FPP,FVL,DCM,CYP,FNV,PMR; Habitat: T; Effect Codes: POP; Code: OK(ALL CHEMS),NO CROP(MLN).

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EcoReference No.: 89397  
Chemical of Concern: PRN,MLN,HCCH; Habitat: T; Effect Codes: MOR; Code: OK(PRN,HCCH,TARGET-MLN).

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EcoReference No.: 101389  
Chemical of Concern: DCTP,PPHD,MTM,PRT,DMT,HCCH,MLN,EN; Habitat: T; Effect Codes: POP; Code: NO MIXTURE(MLN,DCTP),OK(PPHD,PRT,HCCH,EN),TARGET(MTM,DMT).

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Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: CBL,ES,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,CBL).

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Chemical of Concern: MLN,ES,CBL; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,CBL).

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EcoReference No.: 91032  
Chemical of Concern: MLN,ES,CBL; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,CBL).

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Chemical of Concern: ES,MLN,DCF; Habitat: T

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Chemical of Concern: MLN; Habitat: A; Effect Codes: ACC; Code: NO CONTROL,ENDPOINT(MLN).

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Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: BCM,MOR; Code: NO ENDPOINT,CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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EcoReference No.: 87094  
Chemical of Concern: FNT,MLN,DS,ADC,ES; Habitat: T; Effect Codes: GRO,POP; Code: OK(FNT,DS,ADC,ES),NO MIXTURE(MLN).

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Chemical of Concern: CBL,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(CBL).

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Chemical of Concern: MLN; Habitat: T; Code: OK TARGET,NO CROP(MLN).

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EcoReference No.: 3971  
Chemical of Concern: CBL,MLN,ES; Habitat: A; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(CBL),NO CONTROL(MLN,ES).

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Chemical of Concern: MLN; Habitat: A

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Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: 24D,MLN,TMT,DDT,FNT,24DXY; Habitat: T; Effect Codes: BCM; Code: LITE EVAL CODED(24D),TARGET(MLN,TMT,FNT).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 71765  
Chemical of Concern: AND,DZ,DLD,DMT,MLN,TXP,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS,TARGET-DZ,MLN).

Slabbert, J. L. and Venter, E. A. (1999). Biological Assays for Aquatic Toxicity Testing. *Water Sci.Technol.* 39: 367-373.

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Chemical of Concern: Cd,CBF,Cu,CN,MLN,Mn,Hg,PL,Zn; Habitat: A; Effect Codes: MOR,POP,PHY; Code: NO TOX DATA(CBF,MLN),CONTROL(Cd,Cu,CN,Mg,Hg,PL,PPX,Zn).

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EcoReference No.: 92008  
Chemical of Concern: CTN,MAL,HCCH,DZ,MLN,Captan,CBL,ACP; Habitat: T; Effect Codes: BEH; Code: NO CONTROL,ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 38814  
Chemical of Concern: DZ,MLN; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(DZ,MLN).

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Chemical of Concern: FXC,24DXY,ES,DZ,DDVP,MLN,MOM; Habitat: A

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLO,MLN; Habitat: T; Effect Codes: ACC,POP,PHY; Code: EFFICACY(MLN),OK(MLO).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: CBL,MLN; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBL),NO CONTROL(MLN).

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 87962  
Chemical of Concern: ACP,DCTP,MLN,MP,LCYT,CYP,BFT,CYF,PMR; Habitat: T; Effect Codes: MOR; Code: OK(ACP,DCTP,MP,LCYT,CYP,BFT,CYF,PMR),TARGET(MLN,MP).

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Chemical of Concern: MLN,DDT,PIRM,HCCH,DZ,TMT,SMT,BDC,CPYM,PMR; Habitat: AT; Code: NO REVIEW(MLN,PIRM,DZ,TMT,SMT,CPYM,PMR).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T; Effect Codes: CEL,BCM,PHY; Code: NO CONTROL,ENDPOINT(MLN).

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Chemical of Concern: DDVP,MLN,DZ; Habitat: T; Effect Codes: MOR; Code: OK TARGET(MLN).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 89172  
Chemical of Concern: CBD,MLN; Habitat: T; Effect Codes: REP; Code: NO ENDPOINT(CBD,MLN).

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 2941  
Chemical of Concern: DDT,PRN,CBL,MLN; Habitat: A; Effect Codes: GRO,CEL,MOR; Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 82574  
Chemical of Concern: DDT,EFX,LCYT,PYT,FNT,MLN,PMR,DM; Habitat: T; Effect Codes: MOR; Code: TARGET MLN.

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EcoReference No.: 35454  
Chemical of Concern: MLN,MP,CBL,DZ,MVP,24DXY,PRN,ATZ,CBF; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS,TARGET-MLN),NO MIXTURE(ATZ).

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EcoReference No.: 92586  
Chemical of Concern: CYP,DM,ES,FNTH,FNV,MLN; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(CYP,FNV,MLN,ES).

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Chemical of Concern: HCCH,TXP,HPT,DLD,MLN,DZ,Captan,AND; Habitat: T; Effect Codes: REP,GRO,MOR,BCM; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MBZ,CBL,DZ,ES,MLN,CBF,DEM,MVP,CTN,MZB,Maneb,TFN; Habitat: T; Effect Codes: GRO,POP; Code: LITE EVAL CODED(DZ),NO CROP(MLN,MZB,CTN,Maneb),OK(ES,CBF,DEM,MVP,TFN,TARGET-CBL).

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Chemical of Concern: TCF,MLN,CPY,DZ; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: ES,DS,DDT,DZ,DLD,DMT,MLN,EN,CBL; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(DS,DZ,DMT,MLN,CBL,ES).

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Chemical of Concern: ATZ,BMC,CBL,24DXY,DDT,DMB,DLD,DU,MLN,PAQT,PCL,TFN,VNT,Zineb; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(ATZ,BMC,CBL,DMB,MLN).

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Chemical of Concern: DDT,HPT,CPY,MLN,TMP,CBL,MOM,PPX,PMR,RSM,SMT; Habitat: A; Effect Codes: MOR,GRO; Code: NO ENDPOINT(DDT,HPT,CPY,MLN,TMP,CBL,MOM,PPX,PMR,RSM,SMT).

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Chemical of Concern: SZ,AZD,CBF,ES,MLN,PYT,RTN,DCNA,PPZ,Captan,HXZ; Habitat: A; Effect Codes: MOR; Code: NO TOXICANT(SZ,DCNA,PPZ),PUBL AS(AZD,CBF,ES,MLN,PYT,RTN),NO COC(CBL).

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Chemical of Concern: ES,DDVP,MLN,DMT,PPHD,CBL,CYP; Habitat: T; Effect Codes: MOR,GRO; Code: OK(ALL CHEMS),OK TARGET(MLN,CBL),NO COC(OXD).

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Chemical of Concern: ATZ,MLN,Folpet; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(ATZ),NO CONTROL(MLN,Folpet).

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Chemical of Concern: MLN,MLO,PRN,DCB; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL(MLN,MLO),NO MIXTURE(PRN,DCB).

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Chemical of Concern: DMT,BMY,MZB,IPD,VCZ,TDF,MLN,BTN,Captan,Cu,DOP,TFR,AZ,DCF,DMT,FNTH,FNT,DZ,PRN,MCPP1; Habitat: T; Effect Codes: POP; Code: NO CONTROL(ALL CHEMS),TARGET(MZB,TFR,Captan).

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Chemical of Concern: DZ,MLN,FNT; Habitat: A; Effect Codes: ACC; Code: LITE EVAL CODED(DZ),OK(FNT),NO CONTROL(MLN).

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Chemical of Concern: DZ,MLO,FNT; Habitat: A; Effect Codes: ACC,MOR; Code: LITE EVAL CODED(DZ),OK(ALL CHEMS),NO CONTROL(MLO),NO COC(MLN).

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Chemical of Concern: Zineb,TXP,THM,PRT,CBL,PPHD,PRN,Nabam,PCB,MP,MXC,MLN,HCCH,PSM,HPT,AZ,Folpet,EN,DMT,DLD,AND,FNT,ATN,ATZ,DCTP, Habitat: T; Effect Codes: MOR; Code: NO CONTROL(CBL,MP,MLN,AZ,DMT,ATZ,24DXY,DZ,DS,THM) .

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN,PCP; Habitat: A; Effect Codes: ACC,GRO,POP; Code: NO CONTROL,ENDPOINT(MLN,PCP).

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EcoReference No.: 89463  
Chemical of Concern: MLN,ES,OXD,DMT; Habitat: T; Effect Codes: MOR; Code: OK(ES,DMT),OK TARGET(MLN,OXD).

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Chemical of Concern: MLT,DZ,MLN,TBC,BTC,ODZ; Habitat: A; Effect Codes: ACC; Code: NO ENDPOINT,CONTROL(ALL CHEMS).

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Chemical of Concern: FNV,CYP,PPHD,DMT,ES,CPY,MLN; Habitat: T; Effect Codes: MOR; Code: OK(ALL CHEMS),OK TARGET(MLN).

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Chemical of Concern: PPHD,DMT,ES,CPY,MLN,CYP,FNV,DEM; Habitat: T; Effect Codes: MOR; Code: TARGET(DMT,MLN,CPY,CYP,FNV,ES).

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Chemical of Concern: DCTP,NCTN,MVP,MLN,DDVP,PPHD,PRN; Habitat: T; Effect Codes: BCM,GRO; Code: NO ENDPOINT(DCTP,NCTN,MVP,MLN,DDVP,PPHD,PRN).

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Chemical of Concern: PPHD,MP,DDT,MLN,EN,HCCH; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 67978  
Chemical of Concern: Captan,FZFB,PAQT,CPYM,MLN,MDT; Habitat: T; Effect Codes: MOR,REP; Code: NO ENDPOINT(Captan,MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: CBF,PRN,CPY,MLN,DZ,ABM,MVP,DM,PPX,OML,CYR,MOM,DMT; Habitat: T; Effect Codes: MOR,POP; Code: NO ENDPOINT(CBF,CPY,MLN,DZ,CYR,MOM,DMT,TARGET-OML).

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Chemical of Concern: DZ,PIRM,MLN,TMP,AZ,PFF; Habitat: T; Effect Codes: GRO,BCM,MOR; Code: NO ENDPOINT(DZ,PIRM,MLN,TMP,AZ,PFF).

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Chemical of Concern: PPX,CPY,TMP,MLN; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(PPX,CPY,TMP,MLN).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: DDVP,MLN,MLO; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(MLN,DDVP),NO IN VITRO(MLO).

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 94004  
Chemical of Concern: FNTH,DDVP,Naled,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(Naled,MLN,DDVP).

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EcoReference No.: 13243  
Chemical of Concern: 24DXY,DMT,DZ,MLN,FNT; Habitat: A; Effect Codes: PHY,GRO,BCM; Code: NO ENDPOINT(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MDT,OXD,OML,MLN,PHI,ETN,HPT,DMT,DZ,DEM,CHD,CBL,DCTP,DLD,CBP,AZ,AND; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(MLN,DMT).

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EcoReference No.: 90658  
Chemical of Concern: MLN,CBL,MP,CYF,OML,AZ,FNV; Habitat: T; Effect Codes: POP; Code: OK TARGET(MLN,CBL,MP,AZ,CYF,FNV).

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: HCCH,MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

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Chemical of Concern: DDT,HCCH,ES,CRB,MLN, Habitat: T; Code: TARGET(MLN).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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EcoReference No.: 3234  
Chemical of Concern: CuS,NaPCP,DZ,HCCH,MLN,DDVP,TCF; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(DZ,DDVP,TCF,MLN).

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EcoReference No.: 3234  
Chemical of Concern: CuS,NaPCP,DZ,HCCH,MLN,DDVP; Habitat: A; Effect Codes: MOR; Code: NO FOREIGN.

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: TMP,DDT,FNT,FNTH,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(TMP,MLN).

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Chemical of Concern: DDT,MLN,Hg,DLD,CHD,PPB; Habitat: T

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EcoReference No.: 92360  
Chemical of Concern: MLN; Habitat: T; Effect Codes: POP; Code: NO COC(CTN),OK TARGET(MLN).

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EcoReference No.: 7367  
Chemical of Concern: CuS,NaBr,Cd,PL,Mo,CoCl,NaCl,NaBr,KCr,IODN,MLN; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(IODN,CuS,NaBr),NO CONTROL(MLN).

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Chemical of Concern: PRN,DZ,DDVP,MP,DMT,CBNDS,MLN; Habitat: T; Code: NO MIXTURE.

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EcoReference No.: 17127  
Chemical of Concern: DZ,MLN,DDVP,FNTH; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(ALL CHEMS).

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Chemical of Concern: MLN; Habitat: AT

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EcoReference No.: 100466  
Chemical of Concern: CBL,PPX,PMR,DZ,FNTH,FNT,MLN,TMP; Habitat: AT; Code: NO FOREIGN(PMR,TMP,MLN,DZ,CBL).

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EcoReference No.: 13643  
Chemical of Concern: CBL,MLN,MOM,PRN; Habitat: A; Effect Codes: MOR,PHY; Code: NO CONTROL(MOM),NO CONC(CBL,MLN,PRN).

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Chemical of Concern: MLO; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T; Code: TARGET(MLN).

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Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: BMY,Captan,TZL,Maneb,MZB,CBF,TBO,PRT,MLN,FNF,FNT,HCCH,THM; Habitat: T; Code: NO SPECIES(ALL CHEMS).

Yeomans, J. C. and Bremner, J. M. (1985). Denitrification in Soil: Effects of Insecticides and Fungicides. *Soil Biology and Biochemistry* 17: 453-456.

Chemical of Concern: MLN; Habitat: AT

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: T

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Chemical of Concern: MLN; Habitat: A

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EcoReference No.: 8570  
Chemical of Concern: ACP,Captan,CBL,CTN,DDVP,DMT,DS,DZ,FO,HXZ,MDT,MLN,MOM,PPG,PSM,TET,CYP,FVL,PMR,TFR,Cu,CuS,PCP,IZP,MCPP1,CMPH,PFF,FTL,CPY,ES,TCF,FNT,DCF; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(PMR,PPG,PSM,DS,CPYM,CPY,HXZ,CMPH,PFF,DZ,FTL,ACP,DDVP,ES,TCF,FNT,MLN,DCF).

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EcoReference No.: 8570  
Chemical of Concern: ACP,Captan,CBL,CTN,DMT,DS,DZ,FO,HXZ,MDT,MLN,MOM,PPG,PSM,TET,CYP,FVL,PMR,TFR,Cu,CuS,PCP,IZP,MCPP1; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,TFR,CTN,Captan),OK(ALL CHEMS).

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Chemical of Concern: TBF,DDT,MLO,PMR,MLN,PPB,HCCH,ABM; Habitat: T; Effect Codes: MOR; Code: LITE EVAL CODED(TBF),TARGET(MLO,PMR,MLN,PPB).

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EcoReference No.: 89550  
Chemical of Concern: HFP,CSF,MLN,SMU,DFPM,FTS,IZP,IZT,SXD,TKY,DFP,FZF ; Habitat: T; Effect Codes: GRO,MOR; Code: OK(CSF,DFPM),OK TARGET(SMU),NO ENDPOINT(MLN),NO IN VITRO(HFP,FTS,IZP,IZT,SXD,TKY,DFP).

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Chemical of Concern: PMR,FNV,MLN,AND,DDT; Habitat: T; Effect Codes: MOR,PHY,ACC; Code: NO CONTROL(FNV,PMR,MLN).

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Chemical of Concern: TVP,ETN,PIRM,TCF,MLN,DMT,PMR,FNV,CPY,CMPH,DZ; Habitat: T; Effect Codes: MOR,POP; Code: NO CONTROL(CPY,PMR,FNV,DZ,DMT,MLN,PIRM,TCF),NO ENDPOINT(TVP).

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Chemical of Concern: DZ,CPY,MLO,PIRM,AZM; Habitat: T; Effect Codes: BCM; Code: NO IN VITRO(MLO,CPY,DZ),NO ENDPOINT(PIRM).

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EcoReference No.: 113437  
Chemical of Concern: STRP,MLN,Captan,Zineb,AZ,BMY,PSM,DOD,SFR; Habitat: T; Effect Codes: POP; Code: OK(BMY),MIXTURE(STRP,MLN,Captan,Zineb,AZ,PSM).

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Chemical of Concern: MLN,MP,PPX,PMR,FNV; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,MP,PPX,PMR,FNV).

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Chemical of Concern: FNV,ATN,PPX,BDC,MLN,ACP,CPY,DZ; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(FNV,ATN,PPX,MLN,ACP,CPY,DZ).

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Chemical of Concern: CYF,PMR,ATN,PPX,MLN,ACP,CPY,DZ,FNV,PTR,PYN,BDC; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(CYF,PMR,ATN,PPX,MLN,ACP,CPY,DZ,FNV,EFV).

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Chemical of Concern: MLN,HCCH,MEN; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(MLN,MEN).

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Chemical of Concern: DDVP,EN,DDT,TXP,MLN,PPGL,HPT,RTN,AND,DLD; Habitat: A; Effect Codes: GRO,MOR,BCM; Code: NO CONTROL(MLN),OK(RTN,DDVP).

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Chemical of Concern: DZ,AZ,MLN,PRN,PRT; Habitat: A; Effect Codes: BCM,MOR; Code: NO CONTROL,NO ENDPOINT(DZ,AZ,MLN,PRT).

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Chemical of Concern: AsTO,TVP,PMR,MLN,PSM,DZ,CPY,CBL,AMZ,CMPH,HCCH,TXP; Habitat: T; Effect Codes: REP; Code: NO CONTROL(TVP,PMR,MLN,PSM,DZ,CPY,CBL,AMZ).

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Chemical of Concern: MLN,TCF,DZ,CBF,CPY,TXP,PSM,MXC,HCCH,FNTH; Habitat: T; Effect Codes: POP,MOR; Code: NO CONTROL(CPY),NO CONTROL,NO ENDPOINT(CBF,DZ,TCF,PSM,MLN).

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Chemical of Concern: DFZ,MLN; Habitat: T; Effect Codes: POP,MOR; Code: NO ENDPOINT(DFZ,MLN).

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Chemical of Concern: DCNA,CPY,CBD,CBL,BPH,BMY,PCP,ANT,DMB,24DP,24D,DPPl,PIM,MDT,MLX,MLN,HTX,HFR,TPR,PPG,TBA,PL,ILL,FMU,FNTH,BPZ,BNZ,4NP,2CP,24DC,DZ,DU,DMT,DCF; Habitat: A; Effect Codes: MOR,ACC; Code: NO CONTROL(PPG,TPR,HFR,HTX,MLN,MLX,MDT,PIM,DPPl,24D,24DP,DMB,ANT,PCP,BMY,BPH,CBL,CBD,CPY,DZ,DCNA.

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Chemical of Concern: DMT,PZM,PIM,VCZ,MLX,FNT,MLN,CPY,PDM,IPD,CYF,CYP,AZX,DM; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT,NO CONTROL(DMT,PZM,PIM,VCZ,MLX,FNT,MLN,CPY,PDM,IPD,CYF,CYP,AZX,DM).

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Chemical of Concern: TEZ,CYPM,DM,FVL,CYP,CYF,OXF,PDM,DF,MLN,PIM,DZ,PZM,AZX; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(DM,FVL,CYP,CYF,OXF,PDM,DF,MLN,PIM,DZ,PZM,AZX).

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Chemical of Concern: CBL,DZ,DCF,ES,MLN,MXC,BMY,MZB,Captan; Habitat: T; Effect Codes: REP,GRO,PHY; Code: NO ENDPOINT(CBL,DZ,DCF,ES,MLN,BMY,MZB,Captan).

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EcoReference No.: 115010  
Chemical of Concern: FNTH,FNT,PPX,DLD,MLN,DDT,CPY; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL(CPY,PPX,MLN,FNT).

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Chemical of Concern: PPX,TMP,MLN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(PPX,TMP,MLN).

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Chemical of Concern: MLN,DMT; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT,NO CONTROL(MLN,DMT).

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Chemical of Concern: FNV,PMR,RSM,CYP,CHT,SMT,FPP,TMT,FVL,MLN,PFF,MOM,CBL,PPB,DDT,PYN; Habitat: T; Effect Codes: MOR; Code: NO MIXTURE(PPB),NO CONTROL(CHT,FNV,PMR,CYP,SMT,FPP,TMT,FVL,MLN,PFF,MOM,CBL).

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Chemical of Concern: TBF,PPB,FNT,MLN,BDC,PPX; Habitat: AT; Effect Codes: BCM,MOR; Code: NO ENDPOINT,NO CONTROL(PPB,TBF,PPX,MLN,FNT).

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Chemical of Concern: ATZ,MVP,DZ,AZ,MLN,DDVP,PRN,ETN; Habitat: T; Effect Codes: BCM,GRO; Code: NO ENDPOINT(DDVP,MLN,AZ,DZ,MVP,ATZ).

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EcoReference No.: 108373  
Chemical of Concern: 24DB,LNR,CHD,ETN,HPT,TXP,MP,MLN,CPY,Maneb,MZB,CTN,BMY; Habitat: T; Effect Codes: GRO,MOR; Code: NO ENDPOINT(24DB,LNR,CHD,ETN,HPT,TXP,MP,MLN,CPY,Maneb,MZB,CTN,BMY).

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Chemical of Concern: MLO,DZ,CPYO; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(CPYO,DZ,MLO).

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Chemical of Concern: EP,MDT,CBL,MLN,PPX,BDC,FNF,CPY,DZ,DMT,ACP,CBF,DDVP; Habitat: T; Effect Codes: MOR; Code: TARGET(CPY),NO CONTROL(DZ,FNF,FNV,DMT,ACP),NO EFFECT(CBF,DDVP,PPX,MLN,CBL,MDT,EP).

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Chemical of Concern: MLN,MXC,DDT; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN),NO COC(H3PO4).

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EcoReference No.: 112462  
Chemical of Concern: PPX,TCF,MLN,DDT,PPHD,FNT; Habitat: A; Effect Codes: MOR,BEH,PHY,ACC; Code: OK(FNT),NO ENDPOINT(TCF,MLN,PPX).

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Chemical of Concern: ES,MLN; Habitat: T; Effect Codes: CEL; Code: NO EXP TYPE(ES,MLN).

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Chemical of Concern: AZ,DM,PHSL,PRN,MLN,ACP,RTN,DMT,PFF,ES,DZ,PSM,CBL,MOM,PMR,CBF,FNV,CYP; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(AZ,DM,MLN,ACP,RTN,DMT,PFF,ES,DZ,PSM,CBL,MOM,PMR,CBF,FNV,CYP).

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Chemical of Concern: CYP,PMR,MLN,DMT,OML,CBL,CBF,MOM,FYT,PHSL,IFP,BDC; Habitat: T; Effect Codes: POP; Code: NO CONTROL,NO ENDPOINT(CBF,CBL,OML,DMT,MLN,PMR,CYP),NO ENDPOINT(MOM).

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Chemical of Concern: Cd,Zn,NaCN,NaN3,TFM,KPM,RTN,MLN,ATM,CBL,Cl,Cu,DFZ,FNT; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(Zn,NaCN,NaN3,RTN,MLN,ATM,CBL,DFZ,FNT,Cu).

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Chemical of Concern: FSTAL,MLN,PIM,FYC; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(MLN,FSTAL,FYC),OK(PIM).

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Chemical of Concern: FVL,ETN,DEM,DDVP,CBL,MOM,AZ,MLN,DMT,CPY,DZ,PRN,BMY,FNV,CYP,PHSL,ES,HCCH,DCF; Habitat : T; Effect Codes: MOR,GRO; Code: NO ENDPOINT(MLN),LITE EVAL CODED(FNV,CBL,CPY,MOM),OK(FVL,DDVP,AZ,DMT,DZ,BMY,CYP,ES,DCF).

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EcoReference No.: 117898  
Chemical of Concern: ES,MLN,CBL; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(ES,MLN,CBL).

Pawar, S. S. and Makhija, S. J. (1975). Effect of Insecticide Intoxication on the Hepatic Microsomal Electron Transport Reactions, During Dietary Protein Variations in Young Rats. *Bull.Environ.Contam.Toxicol.* 14: 197-204.

EcoReference No.: 110892  
Chemical of Concern: MLN,PPX; Habitat: T; Effect Codes: GRO,BCM; Code: LITE EVAL CODED(PPX),NO EXP TYPE(MLN).

Pielou, D. P. and Downing, R. S. (1958). Trithion as an Orchard Insecticide. *Proc.Entomol.Soc.BC* 55: 17-23.

EcoReference No.: 57909  
Chemical of Concern: MLN,DDT; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(MLN).

Ping, J. H. (2001). Identification of New Drug Compounds Active Against Pediculus humanus Capitis, and Incorporation of the Compounds into a Safe and Potentially Effective Drug Product Formulation. *Ph.D.Thesis, University of Georgia, Athens, GA:* 219 p. (UMI# 0802844).

EcoReference No.: 118072  
Chemical of Concern: CITRON,PPB,CBL,HCCH,MLN,GER; Habitat: T; Effect Codes: MOR,REP,PHY; Code: OK(CITRON),NO REVIEW(PPB,CBL,HCCH,MLN,GER).

Plapp, F. W. Jr. (1976). Chlordimeform as a Synergist for Insecticides Against the Tobacco Budworm. *J.Econ.Entomol.* 69: 91-92.

EcoReference No.: 114517  
Chemical of Concern: DFZ,PYN,FNT,TMT,CPYM,TXP,MOM,CBL,CPY,DZ,MLN,DMT,PSM,TCF,ACP,MP; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(DFZ,TMT,CPYM,TXP,MOM,CBL,CPY,DZ,MLN,DMT,PSM,TCF,ACP,MP).

Plapp, F. W. Jr. and Casida, J. E. (1969). Genetic Control of House Fly NADPH-Dependent Oxidases: Relation to Insecticide Chemical Metabolism and Resistance. *J.Econ.Entomol.* 62: 1174-1179.

EcoReference No.: 113767  
Chemical of Concern: PPX,PSM,ATN,FNT,MLN,DZ,DDT,AND; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(PPX,PSM,DZ,FNT,ATN,MLN).

Prebble, M. L. (1975). Fall Cankerworm. Alsophila pometaria Harris. *In: M.L.Prebble (Ed.), Aerial Control of Forest Insects in Canada, Dep.of the Environ., Ottawa, Canada* 196-199.

EcoReference No.: 106268  
Chemical of Concern: DDT,CBL,MLN,TCF,MXC; Habitat: T; Effect Codes: POP; Code: NO EFFECT(CBL,MLN),NO ENDPOINT,NO CONTROL(TCF).

Pree, D. J., Archibald, D. E., and Cole, K. J. (1990). Insecticide Resistance in Spotted Tentiform Leafminer (Lepidoptera: Gracillariidae): Mechanisms and Management. *J.Econ.Entomol.* 83: 678-685.

EcoReference No.: 113749  
Chemical of Concern: AZ,TBF,PPB,TVP,MVP,MTM,MP,ACP,CBL,DZ,MLN,PSM,PMR,MOM,DMT; Habitat: T; Effect Codes: MOR,BCM; Code: TARGET(AZ),NO CONTROL(TVP,MVP,MTM,MP,ACP,CBL,DZ,MLN,PSM,PMR,MOM,DMT),NO MIXTURE(PPB,TBF).

Qadri, S. S. H. (1968). Megaselia scalaris (Lw.) (Dipt., Phoridae) for the Bioassay of Organophosphorus Insecticides. *Bull.Entomol.Res.* 59: 389-392.

EcoReference No.: 110616  
Chemical of Concern: DDVP,PRN,MLN; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(DDVP,PRN,MLN).

Rangnekar, D. V., Hiregoudar, L. S., and Avasthi, B. L. (1971). Effectiveness of Malathion Insecticide Against Some Species of Cattle and Buffalo Ticks Commonly Found in India. *Indian Vet.J.* 48: 466-471.

EcoReference No.: 110190  
Chemical of Concern: MLN; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(MLN).

Rawlins, S. C. (1998). Spatial Distribution of Insecticide Resistance in Caribbean Populations of Aedes aegypti and Its Significance. *Rev.Panam Salud Publica* 4: 243-251.

EcoReference No.: 100899  
Chemical of Concern: TMP,MLN; Habitat: AT; Effect Codes: MOR; Code: LITE EVAL CODED(TMP),NO ENDPOINT(MLN).

Roberts, R. H., Stark, P. M., and Meisch, M. V. (1984). Aerosol Evaluation of Selected Adulticides Against Colonized and Field Strains of Mosquitoes. *Mosq.News* 44: 528-533.

EcoReference No.: 112415  
Chemical of Concern: HCCH,DDT,MLN,CHT; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MLN,CHT).

Robertson, J. L., Lyon, R. L., Shon, F. L., and Gillette, N. L. (1972). Contact Toxicity of Twenty Insecticides Applied to Symmerista canicosta. *J.Econ.Entomol.* 65: 1560-1562.

EcoReference No.: 114519  
Chemical of Concern: PYT,FNTH,MTM,FNT,TVP,TCF,PPX,MOM,MLN,PSM,CBL,CPY,DDT; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(CPY,CBL,PSM,MLN,MOM,PPX,TCF,TVP,FNT,MTM).

Robles-Mendoza, C., Garcia-Basilio, C., Cram-Heydrich, S., Hernandez-Quiroz, M., and Vanegas-Perez, C. (2009). Organophosphorus Pesticides Effect on Early Stages of the Axolotl Ambystoma mexicanum (Amphibia: Caudata). *Chemosphere* 74: 703-710 .

EcoReference No.: 116837  
Chemical of Concern: CPY,MLN; Habitat: AT; Effect Codes: MOR,GRO; Code: NO ENDPOINT(MLN),OK(CPY).

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EcoReference No.: 110251  
Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT,NO CONTROL(MLN).

Serban, M., Nita, S., and Olinescu, R. (1979). Studies on the SH=SS Equilibrium in Biological Media. XIII. The Metabolism of Some Organophosphorous Compounds Chronically Administered to Rats. *Rev.Roum.Biochim.* 16: 147-152.

EcoReference No.: 106799  
Chemical of Concern: PRN,MLN,TCF; Habitat: T; Effect Codes: BCM; Code: NO EXP TYPE(PRN,MLN,TCF).

Seume, F. W. and O'Brien, R. D. (1960). Potentiation of the Toxicity to Insects and Mice of Phosphorothionates Containing Carboxyester and Carboxyamide Groups. *Toxicol.Appl.Pharmacol.* 2: 495, 503 (doi: DOI: 10.1016/0041-008X(60)90016-8).

EcoReference No.: 117765  
Chemical of Concern: TCF,MP,MLN,DMT,DZ; Habitat: T; Effect Codes: MOR; Code: NO EXP TYPE(TCF,MP,DZ,MLN,DMT).

Sharma, I. D. and Nath, A. (2005). Persistence of Different Pesticides in Apple. *Acta Hortic.* 696: 437-440.

EcoReference No.: 107785  
Chemical of Concern: MYC,PRN,MLN,FZQ,ES,CPY,MP,HCCH,DDVP,CBD,MZB,DOD,BTN,MP; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT(MLN,FZQ,ES,MP,DDVP,CBD,MZB,DOD,MYC,CPY).

Shirke, M. S. and Salunkhe, G. N. (1996). Relative Residual Toxicity of Some Insecticides to Cryptolaemus montrouzieri Muls. a Predator of Mealy Bugs. *J.Maharashtra Agric.Univ.* 21: 370-371.

EcoReference No.: 111369  
Chemical of Concern: FNV,MLN,DM,ES,DDVP,CPY; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(CPY,DDVP,ES,DM,MLN).

Siltanen, H. and Rosenberg, C. (1975). Investigations on Pesticide Residues, 1974. *Publs.of the State Inst.of Agric.Chem., 10, Helsinki, Finland, State Inst.of Agric.Chem.:* 59 p.

EcoReference No.: 112141  
Chemical of Concern: CQTC,TBZ,TRB,PCH,PHMD,MTZ,LNR,CPP,FRT,TPM,Maneb,DINO,BMY,NCTN,Naled,MXC,MAL,FTT,FNT,ES,DMT,GYP,CBD,FTF,OXC,MLN,DQT,DFQ; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,NO ENDPOINT(CQTC,TBZ,TRB,PCH,PHMD,MTZ,LNR,CPP,FRT,TPM,Maneb,DINO,BMY,NCTN,Naled,MXC,MAL,FTT,FNT,ES,DMT,GYP,CBD,FTF,OXC,MLN,DQT,DFQ).

Siltanen, H. and Rosenberg, C. (1978). Residue Analyses of the Official Testing of Pesticides, 1977. *Report No.15, Publs.of the State Inst.of Agric.Chem., Helsinki, Finland, State Inst.of Agric.Chem.:* 69 p.

EcoReference No.: 112139  
Chemical of Concern: EPH,PHMD,MBZ,MCPP1,MCPA,DMB,TFR,TDF,TYF,TPE,TBA,MEM,IPD,ILL,DINO,BMY,ANZ,OML,MXC,FNT,BRSM,AZ,PDM,GYP,24D,VCZ,CBD,CAP,TCF,PMR,MLN,DCF,CBF,DQT,DFQ; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,NO ENDPOINT(DFQ,DQT,CBF,DCF,MLN,PMR,TCF,CAP,CBD,VCZ,24D,GYP,PDM,EPH,PHMD,MCPP1,DMB,TFR,TDF,IPD,BMY,OML,FNT,BRSM,AZ).

Singh, H. and Singh, T. P. (1982). Effect of Some Pesticides on Hypothalamo-Hypophyseal-Ovarian Axis in the Freshwater Catfish Heteropneustes fossilis (Bloch). *Environ.Pollut.Ser.A Ecol.Biol.27(4):283-288 / In: C.J.J.Richter and H.J.T.Goos (Eds.), Reproductive Physiology of Fish, Fish Endocrinol.Lab., Banaras Hindu Univ., Varanasi, India* 60-61 (ABS).

EcoReference No.: 11068  
Chemical of Concern: AND,MLN,EN; Habitat: A; Effect Codes: ACC; Code: NO DURATION(MLN).

Slama, K. and Miller, T. A. (1987). Insecticide Poisoning: Disruption of a Possible Autonomic Function in Pupae of Tenebrio molitor. *Pestic.Biochem.Physiol.* 29: 25-34.

EcoReference No.: 112441  
Chemical of Concern: HCCH,DDT,PPX,PIM,ACP,CBF,PIRM,DS,SMT,FNV,CYP,BRSM,ATN,OMT,DDVP,MVP,MLN,MTM,MOM,DM,PMR,PYN; Habitat: T; Effect Codes: MOR,GRO,PHY; Code: NO CONTROL(DM,MTM,MOM,PMR,PPX,PIM,ACP,CBF,PIRM,DS,SMT,FNV,CYP,BRSM,ATN,DMT,DDVP,MVP,MLN),NO COC(CHT).

Smith, F. F. and Corley, C. (1972). Mexican Bean Beetle, Yields and Residues of Malathion Sprays on Snap Beans. *J.Econ.Entomol.* 65: 288-289.

EcoReference No.: 94528  
Chemical of Concern: MLO,MLN; Habitat: T; Effect Codes: ACC,POP,PHY; Code: NO ENDPOINT(MLN,MLO).

Su, M. Q. (1969). Inhibition of Aliesterases by Cholinergic Organophosphorus Compounds and Studies on the Toxicology of a New Phosphoroamide. *Ph.D.Thesis, University of Chicago,Chicago,IL* 90 p.

EcoReference No.: 108378  
Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR,BCM; Code: NO EXP TYPE(MLN).

Sun, Y. P. (1971). Speed of Action of Insecticides and Its Correlation with Accumulation in Fat and Excretion in Milk. *J.Econ.Entomol.* 64: 624-630.

EcoReference No.: 114907  
Chemical of Concern: DMT,TCF,CMPH,MLN,PSM,PRT,MPO,TVP,DZ,MVP,Naled,DDVP,ADC,CBL,ES,MP,AND,CHD,HPT,TXP,DDT,EN,HCCH,MXC,PRN,FNTH,DS,ETN,PPHD,DEM,PCTP; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MP,DS,ES,CBL,ADC,DDVP,Naled,MVP,DZ,TVP,MPO,PRT,PSM,MLN,CMPH,TCF,DMT,DCTP).

Tan, W. J., Liang, G. M., and Guo, Y. Y. (1998). Mechanism of Resistance Alleviation in Helicoverpa armigera (Lepidoptera: Noctuidae) to Pyrethroid Caused by Bacillus thuringiensis Pretreatment. *J.Econ.Entomol.* 91: 1253-1259.

EcoReference No.: 114919  
Chemical of Concern: TBF,MPO,MLO,FNV; Habitat: T; Effect Codes: MOR,BCM; Code: TARGET(FNV),IN VITRO(MLO,MPO,TBF).

Tanigoshi, L. K. and Fargerlund, J. (1984). Implications of Parathion Resistance and Toxicity of Citricultural Pesticides to a Strain of Euseius hibisci (Chant) (Acarina:Phytoseiidae) from the San Joaquin Valley of California. *J.Econ.Entomol.* 77: 789-793.

EcoReference No.: 114906  
Chemical of Concern: FBOX,MDT,MLN,PPG,DCF,CBL,ACP,OTQ,MOM,DMT,CPY,CHX; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MOM,ACP,DMT,DCF,CPY,PPG,MLN,MDT,CBL,FBOX).

Tarar, J. L. and Salpekar, C. R. (1980). Relative Tolerance of Soil Algae to Some Selected Insecticides. *Sci.Cult.* 46: 105-107.

EcoReference No.: 104820  
Chemical of Concern: ES,MLN,DDT; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(ES,MLN).

Thakur, A. K. and Hameed, S. F. (1980). Harvest Residues of Some Organophosphorous Insecticides on Apple. *Indian J.Agric.Sci.* 50: 778-780.

EcoReference No.: 107332  
Chemical of Concern: MLN,MP,DZ,PHSL,FNT; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT,NO CONTROL(MLN,MP,DZ,PHSL,FNT).

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EcoReference No.: 118211  
Chemical of Concern: TMP,FNTH,MLN,DDT; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(TMP,MLN).

Tonkopii, V., Zagrebin, A., and Iofina, I. (2008). Bioidentification of Xenobiotics as a Basis of Water Management. *Nato Sci.Peace Security Ser.C* 349-353.

EcoReference No.: 118097  
Chemical of Concern: HgCl2,PbN,Cu,Co,Cd,Cr,As,Al,TCF,DDVP,MLN,MLO,AND,DLD,EN,DDT,CYP,FNV,DM,PMR,ATN,RSM,SMT,CHT; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(DDVP,CYP,PMR),NO CONC(TCF,MLN,MLO,FNV,RSM,CHT,Cr,As,Cu).

Uehara, S., Hiromori, T., Isobe, N., Suzuki, T., Kato, T., and Miyamoto, J. (1993). Studies on the Therapeutic Effect of 2-Pyridine Aldoxime Methiodide (2-PAM) in Mammals Following Organophosphorus Compound-Poisoning (Report III): Distribution and Antidotal Effect of 2-PAM in Rats. *J.Toxicol.Sci.* 18: 265-275.

EcoReference No.: 106885  
Chemical of Concern: FNT,MLN; Habitat: T; Effect Codes: MOR,ACC,PHY; Code: NO EXP TYPE(FNT,MLN).

Vatandoost, H., Oshaghi, M. A., Abaie, M. R., Shahi, M., Yaaghoobi, F., Baghaii, M., Hanafi-Bojd, A. A., Zamani, G., and Townson, H. (2006). Bionomics of Anopheles stephensi Liston in the Malarious Area of Hormozgan Province, Southern Iran, 2002. *Acta Trop.* 97: 196-203.

EcoReference No.: 111743  
Chemical of Concern: BDC,DLD,DDT,DM,CYF,PMR,PPX,FNT,MLN,TMP,CPY; Habitat: AT; Effect Codes: MOR,POP; Code: NO ENDPOINT(DM,PMR,PPX,FNT,CYF,MLN,TMP,CPY).

Venturino, A., Bergoc, R. M., and Pechen, A. M. (1998). Kinetic Models of Lipophilic Compound Uptake and Bioelimination in Amphibians During the Aquatic Stages. *J.Biol.Syst.* 6: 85-94.

EcoReference No.: 67478  
Chemical of Concern: MLN; Habitat: A; Effect Codes: ACC; Code: NO ENDPOINT,NO CONTROL(MLN).

Wallace, D. R., Cameron, J. M., and Sullivan, C. R. (1975). European Pine Sawfly. Neodiprion sertifer (Geoff.). *In: M.L.Prebble (Ed.), Aerial Control of Forest Insects in Canada, Dep.of the Environ., Ottawa, Canada* 224-230.

EcoReference No.: 106181  
Chemical of Concern: DDT,MLN,PPHD; Habitat: T; Effect Codes: POP; Code: NO CONC(MLN).

Whitney, W. K. (1967). Laboratory Tests with Dursban and Other Insecticides in Soil. *J.Econ.Entomol.* 60: 68-74.

EcoReference No.: 69734  
Chemical of Concern: CBL,EN,DLD,AND,DDT,ABT,PPX,PCTP,DEM,DS,PRT,DMT,MLN,ETN,MP,PRN,FNTH,DZ,AZ; Habitat: T; Effect Codes: POP,MOR; Code: NO ENDPOINT(CPY,PRT,PPX,BT,CBL,MLN).

Womeldorf, D. J., Atkins, E. L., and Gillies, P. A. (1974). Honey Bee Hazards Associated with Some Mosquito Abatement Aerial Spray Applications. *Calif.Vector Views* 21: 51-55.

EcoReference No.: 64152  
Chemical of Concern: TMP,FNTH,PRN,MLN,MP,DDVP,Naled,CPY,PPX; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(PPX,CPY,Naled,DDVP,MP,MLN).

Wood, E. A. Jr. (1971). Insecticidal Control of the Greenbug. *J.Econ.Entomol.* 64: 704-707.

EcoReference No.: 114908  
Chemical of Concern: MVP,ADC,PRT,Naled,MP,MLN,CPY,DMT,DCTP,DDVP,DZ,AZ,CBF,PPHD,DS,DEM,FRN,FNF; Habitat: T; Effect Codes: POP,MOR; Code: NO ENDPOINT(MVP,ADC,PRT,MP,Naled,MLN,CPY,DMT,DCTP,DDVP,DZ,AZ,CBF).

Yang, M. C., McLean, A. J., and Le Couteur, D. G. (2002). Age-Related Alteration in Hepatic Disposition of the Neurotoxin 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine and Pesticides. *Pharmacol.Toxicol.* 90: 203-207.

EcoReference No.: 104912  
Chemical of Concern: PQT,MLN,DDT; Habitat: T; Effect Codes: ACC,BCM; Code: NO CONTROL(PQT,MLN).

Yang, M. C., McLean, A. J., Rivory, L. P., and Le Couteur, D. G. (2000). Hepatic Disposition of Neurotoxins and Pesticides. *Pharmacol.Toxicol.* 87: 286-291.

EcoReference No.: 105472  
Chemical of Concern: PAQT,DDT,MLN; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT,NO CONTROL(PAQT,MLN).

Yap, H. H., Khoo, T. C., Tan, H. T., Chung, K. K., Yahaya, A. M., and Narayanan, V. S. (1988). Comparative Adulticidal and Larvicidal Effects of Thermal Fogging Formulations of Resigen and Malathion Against Aedes aegypti (Linnaeus) and Culex quinquefasciatus (Say) in Urban Areas, Malaysia. *Trop.Biomed.* 5: 125-130.

EcoReference No.: 99669  
Chemical of Concern: MLN; Habitat: AT; Effect Codes: MOR; Code: NO CONC(MLN),NO COC(PMR).

Yasuor, H., Osuna, M. D., Ortiz, A., Saldain, N. E., Eckert, J. W., and Fischer, A. J. (2009). Mechanism of Resistance to Penoxsulam in Late Watergrass [Echinochloa phyllopogon (Stapf) Koss.]. *J.Agric.Food Chem.* 57: 3653-3660.

EcoReference No.: 118294  
Chemical of Concern: MLN,PXS,TBC; Habitat: A; Effect Codes: GRO,BCM,ACC; Code: NO CONTROL,NO ENDPOINT(MLN,TBC),OK(PXS).

York, A. C. and Gyrisco, G. G. (1978). Dosage-Mortality Response and Field Control of Adult Alfalfa Snout Beetle. *J.Econ.Entomol.* 71: 783-784.

EcoReference No.: 113376  
Chemical of Concern: MDT,DZ,CBF,CBL,AZ,MLN,PSM,MXC,FNF; Habitat: T; Effect Codes: MOR,POP; Code: NO MIXTURE(MLN),NO CONTROL(MDT,DZ,CBF,CBL,AZ,PSM).

Yu, S. J. and Nguyen, S. N. (1992). Detection and Biochemical Characterization of Insecticide Resistance in the Diamondback Moth. *Pestic.Biochem.Physiol.* 44: 74-81.

EcoReference No.: 109566  
Chemical of Concern: CBF,MTM,DZ,MLN,MP,CPY,FVL,EFV,FNV,CYP,MOM,CYH; Habitat: T; Effect Codes: MOR,BCM; Code: NO CONTROL(MOM,EFV,CYP,FNV,FVL,CPY,MP,MLN,DZ,MTM,CBF).

Zhu, K. Y., Wilde, G. E., Sloderbeck, P. E., Buschman, L. L., Higgins, R. A., Whitworth, R. J., Bowling, R. A., Starkey, S. R., and He, F. (2005). Comparative Susceptibility of Western Corn Rootworm (Coleoptera: Chrysomelidae) Adults to Selected Insecticides in Kansas. *J.Econ.Entomol.* 98: 2181-2187.

EcoReference No.: 111670  
Chemical of Concern: MP,MLN,FPN,CPY,CBL,BFT,CYP; Habitat: T; Effect Codes: MOR; Code: NO CONTROL(MP,MLN,FPN,CPY,CBL,BFT,CYP).

Malathion Refresh August 2010

Papers that Were not Accepted

**Acceptable to EcoTox but not to OPP**

Anasco, N. C., Koyama, J., and Uno, S. (2010). Pesticide Residues in Coastal Waters Affected by Rice Paddy Effluents Temporarily Stored in a Wastewater Reservoir in Southern Japan. *Arch.Environ.Contam.Toxicol.* 58: 352-360.

EcoReference No.: 120733  
Chemical of Concern: MLN,EFX,FNT,CLNB,DZ,FTL,PYX; Habitat: A; Effect Codes: POP,MOR; Code: NO CONC,NO DURATION(FTL,PYX),NO REVIEW(MLN,EFX,FNT,CLNB,DZ).

Anderson, J. P. E. and Lichtenstein, E. P. (1972). Effects of Various Soil Fungi and Insecticides on the Capacity of Mucor alternans to Degrade DDT. *Can.J.Microbiol.* 18: 553-560.

EcoReference No.: 46991  
Chemical of Concern: PCB,ADC,PRN,4NP,AND,NATL,AZ,CBL,FNF,HCCH,MLN,DDT ; Habitat: T; Effect Codes: POP; Code: NO MIXTURE(NATL,AZ,CBL,MLN,ADC).

Apperson, C. S. and Georghiou, G. P. (1975). Changes in Cross-Resistance Spectrum Resulting from Methyl Parathion Selection of Culex tarsalis Coq. *Am.J.Trop.Med.Hyg.* 24: 698-703.

EcoReference No.: 115427  
Chemical of Concern: DLD,DDT,RSM,CBL,PPX,FNTH,CPY,FNT,MLO,MLN,TMP,MP,MPO,PRN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL,NO ENDPOINT(MP,MPO,TMP,MLN,MLO,FNT,CPY,PPX,CBL,RSM).

Azadbar, M., Ranjbar, A., Hosseini-Tabatabaei, A., Golestani, A., Baeeri, M., Sharifzadeh, M., and Abdollahi, M. (2009). Interaction of Phosphodiesterase 5 Inhibitor with Malathion on Rat Brain Mitochondrial-Bound Hexokinase Activity. *Pestic.Biochem.Physiol.* 95: 121-125.

EcoReference No.: 120955  
Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM; Code: NO EXP TYPE(MLN).

Bodnaryk, R. P. (1982). Abdominal Bloat - an Unusual Symptom of Synthetic Pyrethroid Poisoning in Adults of Mamestra configurata (Lepidoptera: Noctuidae). *Can.Entomol.* 114: 1191-1194.

EcoReference No.: 121239  
Chemical of Concern: DM,PMR,DDT,MLN; Habitat: T; Effect Codes: MOR,PHY; Code: NO CONTROL(PMR),OK(DM),NO CONTROL,NO ENDPOINT(MLN).

Campana, A. D., Sanchez, F., Gamboa, C., Gomez-Villalobos Mde, J., De La Cruz, F., Zamudio, S., and Flores, G. (2008). Dendritic Morphology on Neurons from Prefrontal Cortex, Hippocampus, and Nucleus Accumbens is Altered in Adult Male Mice Exposed to Repeated Low Dose of Malathion. *Synapse* 62: 283-290.

Chemical of Concern: MLN; Habitat: T; Code: NO EXP TYPE(MLN).

Dimond, J. B., Malcolm, S. E., and VanDerwerker, G. K. (1972). Zectran and Aquatic Insects: Comparison with Other Insecticides. *Environ.Entomol.* 1: 459-464.

EcoReference No.: 14682  
Chemical of Concern: DDT,FNT,MLN; Habitat: A; Effect Codes: POP; Code: NO REVIEW(FNT,MLN).

Elliott, R. (1958). A Method for the Investigation of Susceptibility to Insecticides in Anopheles Larvae. *Trans.R.Soc.Trop.Med.Hyg.* 52: 527-534.

EcoReference No.: 13491  
Chemical of Concern: DLD,DZ,HCCH,MLN,PRN,TXP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(DZ,MLN).

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EcoReference No.: 120762  
Chemical of Concern: MLN,BMY,CYP,PMR,EFV,FNV; Habitat: A; Effect Codes: GRO; Code: NO CONTROL(MLN,BMY,PMR,CYP,EFV,FNV).

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Chemical of Concern: MLN; Habitat: T; Effect Codes: POP; Code: NO CONTROL,NO ENDPOINT(MLN).

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EcoReference No.: 119126  
Chemical of Concern: PPB,TVP,MLN,FNT,DDT,PPHD,CBL; Habitat: AT; Effect Codes: POP,MOR,REP; Code: NO CONTROL(TVP,MLN),NO MIXTURE(PPB),NO ENDPOINT(FNT,CBL).

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Chem Codes: Chemical of Concern: RSM,FNF,TVP,PSM,MOM,MDT,CPY,ADC,PPG,DCTP,MCB,OXD,PPX,FNT,FNTH,PPHD,Naled,CBL,ETN,ES,DS,DMT,DCF,DDVP,PRT,MVP,AZ,DZ,EN,DEM,MLN,MP,ATN,HPT,DLD,AND,PPB,PRN,EDB,RYA,MXC,DDT,CHD,MB,AlP,TPH,RTN,CLP,CTC,As,Pb,CBNDS,PYN,SFR,CHX,MTM,OML,ACP,BDC,PIRE,DFZ,FNV,AMZ,PMR,SMT,TBO,IFP,SPS Code: NO TOX DATA.

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Chem Codes: Chemical of Concern: 24D,ACF,ACFM,ACP,ACR,AMZ,AND,ANL,ANZ,ASM,ATZ,BDC,BMY,BPH,BSFM,BT,BTN,Captan,CBD,CBF,CBL,CHD,CPP,CPY,CPYM,CTN,CYF,CYH,CYP,DBN,DCF,DDT,DDVP,DFPM,DFZ,DLD,DM,DMT,DS,DU,DZ,DZM,EFX,EN,ES,ETN,EXQ,FMP,FNT,FNTH,FNV,FNZ,Folpet,FRM,FTL,FVL,FYT,FZFB,GYP,HCCH,HPT,IFP,ILL,IMC,IPD,LNR,MBZ,MCB,MCPA,MDT,MLN,MLT,MLX,MOM,MP,MTL,MTM,MXC,OML,OXF,PAQT,PCP,PCZ,PDM,PFF,PHMD,PHSL,PIM,PIRM,PMR,PMT,PPN,PRN,PRO,PRT,PSM,PYN,PZM,SZ,SXD,TBA,TBC,TBO,TCF,TCM,TDF,TFN,TFR,TFT,TFZ,THM,TLM,TPE,TVP,VCZ Code: IN VITRO.

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Chem Codes: Chemical of Concern: HCCH,ACO,AND,AMZ,AZ,BFT,BTN,BMC,CDF,CAP,Captan,CBX,CTN,CPP,CYP,CPZ,CYD,DM,DZ,DDVP,DFPM,DCNA,DCF,DLD,DMT,DINO,DPA,DS,DTP,DU,MTC,ES1,ES2,ESS,EN,EFV,ETN,EP,EXZ,FMP,FRM,FZQ,TZA,FNT,MLT,EFL,TBO,PNB,CTN,DMM,CPYM,ACR,BMC,FNTH,CPY,PRN,PDM,BPZ,KRSM,PPG,CYH,PMR,TFZ,TFN,FYC,FPP,FPN,FYT,FFC,FUZ,FTL,FVL,Folpet,FTZ,HPT,HRF,ILL,IDC,IPD,IFP,MLX,LUF,MLN,MCZ,MDT,MBZ,MVP,MYC,OMT,DDT,ODZ,ODL,OFX,PRN,MP,PDM,PRT,PHSL,PSM,PIM,PFF,PMT,PPN,PPX,PRB,SZ,SDF,TEF,TFY,TBZ,TPZ,TBC,DS,TCM,TYF,TLM,TDF,TDM,VCZ Code: CHEM METHODS.

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Chem Codes: Chemical of Concern: PPHD,FNT,PPX,ACP,TMP,DDVP,CBL,CBF,DZ,DMT,DDT,CPY,ES,FNTH,TVP,MLN,MOM,MXC,Naled,PPX,RSM,PYN,TCF Code: REFS CHECKED/REVIEW.

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Chem Codes: Chemical of Concern: DMB,AMTL,ATZ,AZ,CBL,CBF,DDT,DMB,GYP,HCCH,HXZ,MLN,MXC,PCZ,SZ,TXP,24DXY Code: REVIEW.

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Chem Codes: Chemical of Concern: DXN,PCB,PAH,TCDD,PCZ,MLN,DMT Code: REFS CHECKED/REVIEW.

Walker, C. H. (1998). Biochemical Biomarkers and Potentiation of Toxicity. *Biotherapy* 11: 113-117.  
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Chem Codes: Chemical of Concern: CBL,MLN,PCB,HCCH,PIRM,DZ,CPY,AND,AN Code: REFS CHECKED/REVIEW.

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Chem Codes: Chemical of Concern: CBL,MLN,DMT Code: REFS CHECKED/REVIEW.

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Chem Codes: Chemical of Concern: Captan,THM,Hg,CBL,DZ,CMPH,DDVP,AND,EDB,CTC,MB,AlP,DLD,PYN,DDT,HCCH,MLN Code: REFS CHECKED/REVIEW.

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Chem Codes: Chemical of Concern: DDT,DLD,MLN Code: REVIEW.

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Chem Codes: Chemical of Concern: MLN,MDT,FNT,FNTH,EPRN,HCCH,CTN,ES,DLD Code: METHODS.

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Chem Codes: Chemical of Concern: MXC,ES,DZ,MLN,DDT,DLD,DDVP,CBL,HCCH,AND,EN,ASTO,Ziram,HPT,PNB,CHD,PRN Code: REVIEW.

**Target: Toxicity of Chemical to Intended Pest**

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Chemical of Concern: ES,TDC,PSM,MLN,PMR,IFP,CPY,FNT,MP,CBL; Habitat: T; Effect Codes: MOR; Code: OK(PMR,CPY,ES),TARGET(TDC,PSM,MLN,IFP,FNT,MP,CBL).

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Girish, G. K., Goyal, R. K., and Krishnamurthy, K. (1973). Pirimiphos-Methyl Versus Malathion - Its Efficiency and Residual Toxicity Against Some Stored Grain Insect Pests. *Bull.Grain Technol.* 11: 106.

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Chemical of Concern: MLN; Habitat: T; Code: TARGET(MLN).

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EcoReference No.: 119833  
Chemical of Concern: PPB,AZD,PFF,MLN; Habitat: T; Effect Codes: MOR,BEH; Code: NO MIXTURE(PPB,PFF,AZD),TARGET(MLN).

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EcoReference No.: 89269  
Chemical of Concern: DM,FPP,CYP,FNV,MLN,PMR,PIRM,FYT; Habitat: T; Effect Codes: POP; Code: LITE EVAL CODED(PMR),TARGET(PIRM,MLN,DM,FPP,FYT,CYP,FNV).

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EcoReference No.: 119755  
Chemical of Concern: DM,MLN,PPB; Habitat: T; Effect Codes: MOR; Code: NO MIXTURE(PPB),TARGET(DM,MLN).

Ladd, T. L. Jr., Lawrence, K. O., and Klein, M. G. (1983). Traps and Insecticide-Treated Foliage for Use Against the Japanese Beetle (Coleoptera: Scarabaeidae). *J.Econ.Entomol.* 76: 551-553.

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EcoReference No.: 121142  
Chemical of Concern: MLN,DMT,CBL,DCF,LCYT,DDVP,FNV,MOM,DZ; Habitat: T; Effect Codes: MOR,BEH,GRO; Code: NO SURVEY(DCF,LCYT,DDVP,FNV,MOM,DZ),TARGET(MLN,DMT,CBL).

Minett, M. and Williams, P. (1971). Influence of Malathion Distribution on the Protection of Wheat Grain Against Insect Infestation. *J.Stored Prod.Res.* 7: 233.

Chemical of Concern: MLN; Habitat: T; Code: TARGET(MLN).

Rowland, M. and Hemingway, J. (1987). Changes in Malathion Resistance with Age in Anopheles stephensi from Pakistan. *Pestic.Biochem.Physiol.* 28: 239-247.

Chemical of Concern: MLN; Habitat: T; Code: TARGET(MLN).

Royer, T. A., Edelson, J. V., and Cartwright, B. (1987). Worm Control on Cabbage, 1985. *Insectic.Acaric.Tests* 12: 103-104 (109).

EcoReference No.: 88726  
Chemical of Concern: EFV,CYF,PMR,MTM,CPY,MOM,ES,CBL,MLN,DZ,MP,AZ,FVL,MVP,DMT,MXC,Naled; Habitat: T; Effect Codes: POP; Code: LITE EVAL CODED(PMR),OK(CPY,ES),TARGET(EFV,CYF,MTM,MOM,ES,CBL,MLN,DZ,MP,AZ,FVL,MVP,DMT,Naled).

Singh, H. M. and Rizvi, S. M. A. (1989). Comparative Efficacy and Economics of Insecticides Against Chickpea Semilooper, Autographa nigrisigna Walker (Noctuidae: Lepidoptera) Infesting Chickpea. *Trop.Pest Manag.* 35: 374-376.

EcoReference No.: 121337  
Chemical of Concern: FNV,DM,CYP,PHSL,FNT,PMR,BHC,ES,IFP,MLN,CPY; Habitat: T; Effect Codes: POP; Code: OK(PMR,CPY,ES),EFFICACY(FNV,DM,CYP,FNT,MLN).

Velazquez, A., Creus, A., Xamena, N., and Marcos, R. (1987). Lack of Mutagenicity of the Organophosphorus Insecticide Malathion in Drosophila melanogaster. *Environ.Mutagen.* 9: 343-348.

Chemical of Concern: MLN; Habitat: T; Code: TARGET(MLN).

Yang, M. L., Zhang, J. Z., Zhu, K. Y., Xuan, T., Liu, X. J., Guo, Y. P., and Ma, E. B. (2009). Mechanisms of Organophosphate Resistance in a Field Population of Oriental Migratory Locust, Locusta migratoria manilensis (Meyen). *Arch.Insect Biochem.Physiol.* 71: 3-15.

EcoReference No.: 119743  
Chemical of Concern: PPB,MLN,CPY; Habitat: T; Effect Codes: MOR; Code: NO MIXTURE(PPB),TARGET(MLN,CPY).

Yoon, K. S. (2006). Detection and Mechanism of Pediculicide Resistance in Human Head Louse, Pediculus capitis. *Ph.D Thesis, Univ.of Mass, Amherst, MA* 153 p. (UMI# 3242369).

EcoReference No.: 119681  
Chemical of Concern: PMR,DDT,MLN,HCCH,ABM,PPB,TBF; Habitat: T; Effect Codes: CEL,PHY,MOR,GRO,REP,POP; Code: NO MIXTURE(TBF),NO PUBL AS(PPB),TARGET(PMR,MLN,ABM).

Malathion Refresh August 2010

Papers that Were not Accepted

**Acceptable to EcoTox but not to OPP**

Anasco, N. C., Koyama, J., and Uno, S. (2010). Pesticide Residues in Coastal Waters Affected by Rice Paddy Effluents Temporarily Stored in a Wastewater Reservoir in Southern Japan. *Arch.Environ.Contam.Toxicol.* 58: 352-360.

EcoReference No.: 120733  
Chemical of Concern: MLN,EFX,FNT,CLNB,DZ,FTL,PYX; Habitat: A; Effect Codes: POP,MOR; Code: NO CONC,NO DURATION(FTL,PYX),NO REVIEW(MLN,EFX,FNT,CLNB,DZ).

Anderson, J. P. E. and Lichtenstein, E. P. (1972). Effects of Various Soil Fungi and Insecticides on the Capacity of Mucor alternans to Degrade DDT. *Can.J.Microbiol.* 18: 553-560.

EcoReference No.: 46991  
Chemical of Concern: PCB,ADC,PRN,4NP,AND,NATL,AZ,CBL,FNF,HCCH,MLN,DDT ; Habitat: T; Effect Codes: POP; Code: NO MIXTURE(NATL,AZ,CBL,MLN,ADC).

Apperson, C. S. and Georghiou, G. P. (1975). Changes in Cross-Resistance Spectrum Resulting from Methyl Parathion Selection of Culex tarsalis Coq. *Am.J.Trop.Med.Hyg.* 24: 698-703.

EcoReference No.: 115427  
Chemical of Concern: DLD,DDT,RSM,CBL,PPX,FNTH,CPY,FNT,MLO,MLN,TMP,MP,MPO,PRN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL,NO ENDPOINT(MP,MPO,TMP,MLN,MLO,FNT,CPY,PPX,CBL,RSM).

Azadbar, M., Ranjbar, A., Hosseini-Tabatabaei, A., Golestani, A., Baeeri, M., Sharifzadeh, M., and Abdollahi, M. (2009). Interaction of Phosphodiesterase 5 Inhibitor with Malathion on Rat Brain Mitochondrial-Bound Hexokinase Activity. *Pestic.Biochem.Physiol.* 95: 121-125.

EcoReference No.: 120955  
Chemical of Concern: MLN; Habitat: T; Effect Codes: BCM; Code: NO EXP TYPE(MLN).

Bodnaryk, R. P. (1982). Abdominal Bloat - an Unusual Symptom of Synthetic Pyrethroid Poisoning in Adults of Mamestra configurata (Lepidoptera: Noctuidae). *Can.Entomol.* 114: 1191-1194.

EcoReference No.: 121239  
Chemical of Concern: DM,PMR,DDT,MLN; Habitat: T; Effect Codes: MOR,PHY; Code: NO CONTROL(PMR),OK(DM),NO CONTROL,NO ENDPOINT(MLN).

Campana, A. D., Sanchez, F., Gamboa, C., Gomez-Villalobos Mde, J., De La Cruz, F., Zamudio, S., and Flores, G. (2008). Dendritic Morphology on Neurons from Prefrontal Cortex, Hippocampus, and Nucleus Accumbens is Altered in Adult Male Mice Exposed to Repeated Low Dose of Malathion. *Synapse* 62: 283-290.

Chemical of Concern: MLN; Habitat: T; Code: NO EXP TYPE(MLN).

Dimond, J. B., Malcolm, S. E., and VanDerwerker, G. K. (1972). Zectran and Aquatic Insects: Comparison with Other Insecticides. *Environ.Entomol.* 1: 459-464.

EcoReference No.: 14682  
Chemical of Concern: DDT,FNT,MLN; Habitat: A; Effect Codes: POP; Code: NO REVIEW(FNT,MLN).

Elliott, R. (1958). A Method for the Investigation of Susceptibility to Insecticides in Anopheles Larvae. *Trans.R.Soc.Trop.Med.Hyg.* 52: 527-534.

EcoReference No.: 13491  
Chemical of Concern: DLD,DZ,HCCH,MLN,PRN,TXP; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(DZ,MLN).

Hadani, A. and Egyed, M. N. (1967). Use of the Chick Embryo for Testing the Toxicity of Cholinesterase-Inhibiting Compounds. *Toxicol.Appl.Pharmacol.* 10: 313-321.

EcoReference No.: 36947  
Chemical of Concern: MLN,TCF; Habitat: T; Effect Codes: BCM; Code: NO EXP TYPE(MLN,TCF).

Hagino, S. (2007). A State of the Art of Testing Methods for Endocrine Disrupting Chemicals in Fish and Daphnids. *In: H.Ohkawa, H.Miyagawa and P.W.Lee (Eds.), Pesticide Chemistry: Crop Protection, Public Health, Environmental Safety, Wiley-VCH, Verlag GmbH & Co.KGaA, Weinheim* 415-424.

EcoReference No.: 120762  
Chemical of Concern: MLN,BMY,CYP,PMR,EFV,FNV; Habitat: A; Effect Codes: GRO; Code: NO CONTROL(MLN,BMY,PMR,CYP,EFV,FNV).

Hyde, K. M., Graves, J. B., Schilling, P. E., and Bonner, F. L. (1972). The Influence of Mirex Bait on Production and Survival of Louisiana Red Crawfish, Procambarus clarki (Girard). *Proc.Annu.Conf.Southeast.Assoc.Game Fish Comm.* 26: 473-483.

EcoReference No.: 14263  
Chemical of Concern: MLN,CBF,MRX; Habitat: A; Effect Codes: POP,ACC,MOR; Code: NO MIXTURE(MLN,CBF).

Isa, A. L., Awadallah, W. H., Tantawy, A. M., and Bishara, M. A. (1970). On the Chemical Control of the Rice Stem Borer (Lepidoptera: Crambidae). *Bull.Entomol.Soc.Egypt Econ.Ser.* 4: 117-125.

EcoReference No.: 50503  
Chemical of Concern: DDT,DZ,TCF,CPY,MP,AZ,HCCH,MLN,CBL,FNT,ES,PHSL; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(DZ,TCF,CPY,MP,AZ,MLN,CBL,FNT,ES).

Kadoum, A. M. and La Hue, D. W. (1969). Effect of Hybrid, Moisture Content, Foreign Material, and Storage Temperature on the Degradation of Malathion Residues in Grain Sorghum. *J.Econ.Entomol.* 62: 1161-1164.

EcoReference No.: 120953  
Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,NO ENDPOINT(MLN).

Kadoum, A. M. and LaHue, D. W. (1972). Degradation of Malathion on Viable and Sterilized Sorghum Grain. *J.Econ.Entomol.* 65: 497-500.

EcoReference No.: 120954  
Chemical of Concern: MLN; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,NO ENDPOINT(MLN).

Khosla, S. N. and Singh, P. (1977). Chemical Weed Control in Ammi visnaga L. and the Relative Effectiveness of Some Growth Substances. *Herba Hung.* 16: 67-74.

EcoReference No.: 26318  
Chemical of Concern: EPH,MLN; Habitat: T; Effect Codes: GRO; Code: NO ENDPOINT(EPH,MLN).

Lee, C. W. and Giglioli, M. E. C. (1974). Aerial Applications of Malathion, Pyrethrins and a Pyrethroid on Grand Cayman for Mosquito Control. *PANS* 20: 208-214.

EcoReference No.: 121147  
Chemical of Concern: MLN; Habitat: T; Effect Codes: POP; Code: NO CONTROL,NO ENDPOINT(MLN).

Mani, V. G. T. and Konar, S. K. (1986). Acute Toxicity of Some Pesticides to Fish, Plankton and Worm. *Environ.Ecol.* 4: 121-123.

EcoReference No.: 303  
Chemical of Concern: MLN,CPY; Habitat: A; Effect Codes: MOR; Code: OK(CPY),NO MIXTURE(MLN).

Mischke, C. C. and Wise, D. J. (2010). Toxicity of Selected Mosquito Sprays and a Synergist to Channel Catfish Sac Fry. *J.World Aquacult.Soc.* 41: 168-170.

EcoReference No.: 121256  
Chemical of Concern: MLN,PMR,PPB; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN,PMR,PPB).

Morris, O. N. (1975). Integration of Microbial and Chemical Insecticides in Control of the Spruce Budworm.  *In: M.L.Prebble (Ed.), Aerial Control of Forest Insects in Canada: A Review of Control Projects Employing Chemical and Biological Insecticides, Dep.of the Environ., Ottawa, Can.:* 138-142.

EcoReference No.: 119370  
Chemical of Concern: MLN,FNT; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(MLN,FNT).

Murai, T., Miyazaki, M., and Ozuka, M. (1992). Changes in Insecticide Susceptibility of the Diamondback Moth in Shimane, Japan. *Jarq (Jpn.Agric.Res.Q.)* 26: 152-156.

EcoReference No.: 91191  
Chemical of Concern: EFX,DDVP,ACP,FNV,MLN,MOM; Habitat: T; Effect Codes: MOR,POP; Code: NO CONTROL,NO ENDPOINT(EFX,FNV,MOM),NO CONTROL(DDVP,ACP),NO MIXTURE(MLN).

Murphy, S. D., Lauwerys, R. R., and Cheever, K. L. (1968). Comparative Anticholinesterase Action of Organophosphorus Insecticides in Vertebrates. *Toxicol.Appl.Pharmacol.* 12: 22-35.

EcoReference No.: 2669  
Chemical of Concern: AZ,MLO,PRN,MLN; Habitat: AT; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(AZ),OK(PRN),NO ENDPOINT(MLO),NO CONTROL,NO ENDPOINT(MLN).

Olinger, L. D. (1967). The Effects of Dimethyl Sulfoxide on the Biological Activity of Selected Miticides and Insecticides. *Ph.D.Thesis, University of Florida, Gainesville, FL* 51p.

EcoReference No.: 46412  
Chemical of Concern: DDT,DCF,DLD,ES,ETN,MLN; Habitat: T; Effect Codes: MOR,REP,PHY,ACC,GRO; Code: NO MIXTURE(DCF,DLD,ES,MLN).

Pankiw, T. and Jay, S. C. (1992). Aerially Applied Ultra-Low-Volume Malathion Effects on Caged Honey Bees (Hymenoptera: Apidae), Caged Mosquitoes (Diptera: Culicidae), and Malathion Residues. *J.Econ.Entomol.* 85: 687-691.

EcoReference No.: 120902  
Chemical of Concern: MLN; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(MLN).

Pathak, L., Singh, D. P., and Kumar, S. (2009). Effect of Malathion on Haematological Parameters of a Fresh Water Fish, Labeo rohita. *Bionotes* 11: 68.

EcoReference No.: 120172  
Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL,MOR; Code: NO CONTROL,NO ENDPOINT(MLN).

Prebble, M. L. (1975). Introduction. *In: M.L.Prebble (Ed.), Aerial Control of Forest Insects in Canada: A Review of Control Projects Employing Chemical and Biological Insecticides, Dep.of the Environ., Ottawa, Can.:* 77-151.

EcoReference No.: 119126  
Chemical of Concern: PPB,TVP,MLN,FNT,DDT,PPHD,CBL; Habitat: AT; Effect Codes: POP,MOR,REP; Code: NO CONTROL(TVP,MLN),NO MIXTURE(PPB),NO ENDPOINT(FNT,CBL).

Ramke, D. J., Gillies, P. A., and Schaefer, C. H. (1969). Aedes nigromaculis Control Crisis in the Southern San Joaquin Valley. *Calif.Vector Views* 16: 19-20.

EcoReference No.: 67299  
Chemical of Concern: MP,PRN,MLN,TMP,CPY,FNTH; Habitat: AT; Effect Codes: MOR; Code: NO CONTROL,NO ENDPOINT(MLN,MP,TMP,CPY).

Rawn, G. P. (1981). Fate and Degradation of Permethrin in a Model Aquatic Ecosystem. *Ph.D Thesis, University of Manitoba, Canada* 153 p. (UMI#NK50946).

EcoReference No.: 118862  
Chemical of Concern: CBL,BRSM,MP,CPY,MLN,PMR,CYP,DCMA,FNV,DDT,MXC,PRN,FNT,TPMR,CPMR; Habitat: AT; Effect Codes: MOR,ACC; Code: TARGET(CPY,TPMR,CPMR),NO REVIEW(CBL,BRSM,MP,MLN,PMR,CYP,DCMA,FNV,FNT).

Reus, G. Z., Valvassori, S. S., Nuernberg, H., Comim, C. M., Stringari, R. B., Padilha, P. T., Leffa, D. D., Tavares, P., Dagostim, G., Paula, M. M., Andrade, V. M., and Quevedo, J. (2008). DNA Damage After Acute and Chronic Treatment with Malathion in Rats. *J.Agric.Food Chem.* 56: 7560-7565.

Chemical of Concern: MLN; Habitat: T; Code: NO EXP TYPE(MLN).

Ritchie, S. A., Long, S., and Montgomery, B. (2004). Efficacy of Methyl Bromide Fumigation and Insecticidal Dips Against Aedes Eggs on Lucky Bamboo. *J.Am.Mosq.Control Assoc.* 20: 283-285.

EcoReference No.: 81447  
Chemical of Concern: MLN,CBL,LCYT,MB,BFT; Habitat: AT; Effect Codes: MOR; Code: LITE EVAL CODED(LCYT,BFT),OK(MB),NO MIXTURE(CBL,MLN).

Rodriguez-Ariza, A., Diaz-Mendez, F. M., Navas, J. I., Pueyo, C., and Lopez-Barea, J. (1995). Metabolic Activation of Carcinogenic Aromatic Amines by Fish Exposed to Environmental Pollutants. *Environ.Mol.Mutagen.* 25: 50-57.

EcoReference No.: 19498  
Chemical of Concern: PCB,BAP,CuCl,DLD,MLN; Habitat: AT; Effect Codes: CEL,BCM; Code: NO ENDPOINT(CuCl,MLN).

Sawhney, A. K. and Johal, M. S. (1999). Potential Application of Elemental Analysis of Fish Otoliths as Pollution Indicator. *Bull.Environ.Contam.Toxicol.* 63: 698-702 .

EcoReference No.: 53907  
Chemical of Concern: MLN; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(MLN).

Schaefer, C. H. and Mulligan III, F. S. (1991). Potential for Resistance to Pyriproxyfen: A Promising New Mosquito Larvicide. *J.Am.Mosq.Control Assoc.* 7: 409-411.

EcoReference No.: 9642  
Chemical of Concern: CPY,FNTH,MLN,PYX; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(MLN),OK(CPY).

Staicu, A. C., Munteanu, M. C., and Dinischiotu, A. (2008). Malathion Induced Histological Modifications in Gills and Kidney of Carassius auratus gibelio. *Med.Vet.Banatului Timisoara* 41: 448-453.

EcoReference No.: 121255  
Chemical of Concern: MLN; Habitat: A; Effect Codes: CEL; Code: NO ENDPOINT(MLN).

Trevisan, R., Uliano-Silva, M., Pandolfo, P., Franco, J. L., Brocardo, P. S., Santos, A. R., Farina, M., Rodrigues, A. L., Takahashi, R. N., and Dafre, A. L. (2008). Antioxidant and Acetylcholinesterase Response to Repeated Malathion Exposure in Rat Cerebral Cortex and Hippocampus. *Basic Clin.Pharmacol.Toxicol.* 102: 365-369.

Chemical of Concern: MLN; Habitat: T; Code: NO EXP TYPE(MLN).

Tsuda, T., Kojima, M., Harada, H., Nakajima, A., and Aoki, S. (1997). Acute Toxicity, Accumulation and Excretion of Organophosphorous Insecticides and Their Oxidation Products in Killifish. *Chemosphere* 35: 939-949.

EcoReference No.: 18398  
Chemical of Concern: DZ,MLO,FNT; Habitat: A; Effect Codes: ACC,MOR; Code: LITE EVAL CODED(DZ),NO CONTROL(MLO,FNT,MLN).

Wyttenbach, C. R. and Thompson, S. C. (1985). The Effects of the Organophosphate Insecticide Malathion on Very Young Chick Embryos: Malformations Detected by Histological Examination.  *Am.J.Anat.* 174: 187-202.

EcoReference No.: 120761  
Chemical of Concern: MLN; Habitat: T; Effect Codes: GRO; Code: NO ENDPOINT(MLN).

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Chem Codes: Chemical of Concern: BRSM,MLN,TBF,RSM Code: REFS CHECKED/REVIEW.

Abraham, S. S., Manohar, B. M., Sundararaj, A., and Thiagarajan, V. (1997). Genotoxicity of Malathion: a Sub-Chronic Study in Mice. *Indian Vet.J.* 74: 565-567.  
Chem Codes: Chemical of Concern: MLN Code: NO CONC.

Abu-Qare, A. W. and Abou-Donia, M. B. (2001). Simultaneous Determination of Malathion, Permethrin, Deet (N,N-Diethyl-M-Toluamide), and Their Metabolites in Rat Plasma and Urine Using High Performance Liquid Chromatography. *J.Pharm.Biomed.Anal.* 26: 291-299.  
Chem Codes: Chemical of Concern: MLN,MLO,PMR,DEET Code : MIXTURE.

Ahrens, M. (2008). Literature Review of Organic Chemicals of Emerging Environmental Concern in Use in Auckland. *NIWA Proj.: ARC07209, Auckland Reg.Counc., Natl.Inst.of Water & Atmos.Res.Ltd., Hamilton, N.Z.* 193 p.  
Chem Codes: EcoReference No.: 120881  
Chemical of Concern: CPC,BDF,BML,ACP,TLM,DM,TMT,LCYT,BFT,RTN,IMC,PPB,CPY,CBL,PMR,MLN,DZ,TFN,DMB,PRO,DQTBr,24D,GYP,TFR,MXC,CTN,MZB,Captan,TPE,FMA,ETHN,DEG,CF,CTC,PCB,TOL,PHTH,AKTMD,ACAC,BNL,BUT,IZP,Ziram Code: REVIEW.

Akiyama, Y., Yoshioka, N., Yano, M., Mitsuhashi, T., Takeda, N., Tsuji, M., and Matsushita, S. (1997). Pesticide Residues in Agricultural Products (F.y. 1994-1996). *J.Food Hyg.Soc.Jpn.(Shokuhin Eiseigaku Zasshi)* 38: 381-389 (JPN).  
Chem Codes: Chemical of Concern: FNT,ACP,DZ,DDVP,MTM,CYP,EFX,FNV,FVL,PMR,MOM,BFZ,TFZ,CYF,TFY,MLN,BPH,ILL,TBA,DPDP,ES,DM,BTN,FRM,IPD,MYC,TDF,TDM Code: NON-ENGLISH.

Ali, K. H. and Wheelock, J. V. (1973). Pesticides in Effluents and Polluted River Water. *Int.J.Environ.Anal.Chem.* 2: 261-272.  
Chem Codes: Chemical of Concern: MLN,DDT,DLD,CHD,ES,AND,HPT,PRN Code: EFFLUENT.

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Chem Codes: Chemical of Concern: ES,MOM,MLN,DZ,CBL,Captan,MP,PCB,CHD Code: INCIDENT/NO CONC.

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Chem Codes: Chemical of Concern: MLN Code: ABSTRACT.

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Chem Codes: Chemical of Concern: CHD,EN,HCCH,DZ,DDT,DLD,AND,MLN,HPT Code: REVIEW.

Anonymous (1983). Malathion. *IARC Monogr.on the Evaluation of the Carcinogenic Risk of Chemicals to Humans* 30: 103-129.  
Chem Codes: Chemical of Concern: MLN,MLO Code: REVIEW.

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Chem Codes: Chemical of Concern: TCF,DEM,MLN,DDVP,CMPH,AZ,MP,DCTP,DS,MVP,DZ,PRN,DDT,PRT Code: HUMAN HEALTH .

Babaian, G. A. (1986). Scale - Insects of Stone Fruit Crops and Control Measures Against Them. *Boll.Lab.Entomol.Agrar.Filippo Silvestri* 43: 133-138.  
Chem Codes: Chemical of Concern: PYT,PMR,MLN,DZ Code: NO TOX DATA.

Baerg, R. J., Barrett, M., and Polge, N. D. (1996). Insecticide and Insecticide Metabolite Interactions With Cytochrome P450 Mediated Activities in Maize. *Pestic.Biochem.Physiol.* 55: 10-20.  
Chem Codes: Chemical of Concern: DDA,124T,NSF,TBO,PRT,CPY,MLN,CBF,CBL,PMR,FNF,TBS Code: IN VITRO/MIXTURE.

Bai, S. G. (1964). Persistence of Malathion Residues on Treated Foodgrains Under Different Conditions of Storage and Processing. *In: S.K.Majunder (Ed.), Symposium on Pesticides, Academy of Pest Control Sciences, Mysore, India* 310-315.  
Chem Codes: Chemical of Concern: MLN Code: NO TOX DATA.

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Chem Codes: Chemical of Concern: PPB,TBF,MLN Code: REFS CHECKED/REVIEW.

Barker, Z., Venkatchalam, V., Martin, A. N., Farquar, G. R., and Frank, M. ( Detecting Trace Pesticides in Real Time Using Single Particle Aerosol Mass Spectrometry. *Anal Chim Acta. 2010, Feb 28; 661(2):188-94. [Analytica chimica acta]*.  
Chem Codes: Chemical of Concern: MLN Code: CHEM METHODS.

Baron, R. L. and Merriam, T. L. (1988). Toxicology of Aldicarb. *Rev.Environ.Contam.Toxicol.* 105: 1-70.  
Chem Codes: Chemical of Concern: PMR,ADC,AZ,CBF,FNV,MLN,MOM Code: REVIEW.

Bart, J. and Hunter, L. (1978). Ecological Impacts of Forest Insecticides: An Annotated Bibliography. *U.S.Dep.Agric.For.Serv., Washington, DC* 128 p.  
Chem Codes: Chemical of Concern: PPHD,ACP,MTPN,PPX,CBL,DFZ,TCF,FNT,TVP,AZ,MLN,MP,PRN Code: REFS CHECKED/REVIEW.

Bart, J. and Hunter, L. (1978). Ecological Impacts of Forest Insecticides: an Annotated Bibliography. *U.S.Dep.Agric.For.Serv., Washington, DC* 128 p.  
Chem Codes: Chemical of Concern: PPHD,ACP,MTPN,PPX,CBL,DFZ,TCF,FNT,TVP,AZ,MLN,MP,PRN Code: REFS CHECKED/REVIEW.

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Nguyen, T. D., Han, E. M., Seo, M. S., Kim, S. R., Yun, M. Y., Lee, D. M., and Lee, G. H. (2008). A Multi-Residue Method for the Determination of 203 Pesticides in Rice Paddies Using Gas Chromatography/Mass Spectrometry. *Anal.Chim.Acta* 619: 67-74.  
Chem Codes: Chemical of Concern: HCCH,ACO,AND,AMZ,AZ,BFT,BTN,BMC,CDF,CAP,Captan,CBX,CTN,CPP,CYP,CPZ,CYD,DM,DZ,DDVP,DFPM,DCNA,DCF,DLD,DMT,DINO,DPA,DS,DTP,DU,MTC,ES1,ES2,ESS,EN,EFV,ETN,EP,EXZ,FMP,FRM,FZQ,TZA,FNT,MLT,EFL,TBO,PNB,CTN,DMM,CPYM,ACR,BMC,FNTH,CPY,PRN,PDM,BPZ,KRSM,PPG,CYH,PMR,TFZ,TFN,FYC,FPP,FPN,FYT,FFC,FUZ,FTL,FVL,Folpet,FTZ,HPT,HRF,ILL,IDC,IPD,IFP,MLX,LUF,MLN,MCZ,MDT,MBZ,MVP,MYC,OMT,DDT,ODZ,ODL,OFX,PRN,MP,PDM,PRT,PHSL,PSM,PIM,PFF,PMT,PPN,PPX,PRB,SZ,SDF,TEF,TFY,TBZ,TPZ,TBC,DS,TCM,TYF,TLM,TDF,TDM,VCZ Code: CHEM METHODS.

Nigam, P. C. (1975). Chemical Insecticides. *In: M.L.Prebble (Ed.), Aerial Control of Forest Insects in Canada: A Review of Control Projects Employing Chemical and Biological Insecticides, Dep.of the Environ., Ottawa, Can.:* 8,24.  
Chem Codes: Chemical of Concern: PPHD,FNT,PPX,ACP,TMP,DDVP,CBL,CBF,DZ,DMT,DDT,CPY,ES,FNTH,TVP,MLN,MOM,MXC,Naled,PPX,RSM,PYN,TCF Code: REFS CHECKED/REVIEW.

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**Target: Toxicity of Chemical to Intended Pest**

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Notes: EcoReference No.: 111365  
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Chemical of Concern: MLN

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Notes: EcoReference No.: 159310  
Chemical of Concern: BRSM,CPY,CPYM,DDT,DDVP,DLD,DZ,EN,EPRN,FNT,MLN,MOM,MP,MVP,Naled,PIRM,PMR,PPB,PRN,SMT

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Notes: EcoReference No.: 93264  
Chemical of Concern: DDVP,DZ,FNT,MLN,PIRM,PPB,TBF

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Call Number: NO IN VITRO (24D,24DXY,BT,CBF,CBL,CPY,CRME,DMB,MLN,PMR,PRT,TBS)  
Notes: EcoReference No.: 157920  
Chemical of Concern: 24D,24DXY,BT,CBF,CBL,CPY,CRME,DDA,DFP,DMB,FNF,IMQ,IZT,MLN,NSF,PMR,PRT,TBS

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Call Number: NO ENDPOINT (CBL,CYP,CuOH,DM,DMT,DZ,FNV,Folpet,MLN,PMR,SFR,TCF), TARGET2012 (BMY,Captan,CuOH,FRM,Folpet,MZB,SFR)  
Notes: EcoReference No.: 84809  
Chemical of Concern: BMY,CBL,CYP,Captan,CuOH,DINO,DM,DMT,DZ,ETN,FNV,FRM,Folpet,MLN,MZB,OTQ,PMR,SFR,TCF,TPM,Zineb

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Rec #: 50  
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Notes: EcoReference No.: 162207  
Chemical of Concern: ACP,CBL,CHD,CMPH,DCTP,DDT,DDVP,DLD,DMT,DZ,EN,EPRN,ES,FNF,FNT,HPT,MLN,MVP,PHSL,PPB,PRN,PSM,TCF,TEPP

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Chemical of Concern: MLN,TMP

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Rec #: 2650  
Call Number: NO CONTROL (MLN), NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162493  
Chemical of Concern: MLN

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Rec #: 2640  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162492  
Chemical of Concern: MLN

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Call Number: NO ENDPOINT (CBL,DM,ES,MLN,MP,PMR), TARGET2012 (CBL,DM,MP)  
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Chemical of Concern: CBL,DM,ES,MLN,MP,PHSL,PMR

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Call Number: LITE EVAL CODED (KSP), NO MIXTURE (CBL,DZ,MLN)  
Notes: EcoReference No.: 106195  
Chemical of Concern: CBL,DZ,KSP,MLN

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Notes: EcoReference No.: 162500  
Chemical of Concern: FNPP,IMBM,MLN

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Call Number: NO MIXTURE (BRSM,CPYM,FNT,MLN,PMR,PPB), PESTS (CPYM,PMR), TARGET2012 (BRSM,FNT,MTPN)  
Notes: EcoReference No.: 151557  
Chemical of Concern: BRSM,CPYM,FNT,MLN,MTPN,PMR,PPB

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Call Number: NO CONTROL (CBL,DZ,ES,MLN), PESTS (ES), TARGET2012 (CBL,DZ)  
Notes: EcoReference No.: 153769  
Chemical of Concern: AND,CBL,CHD,DDT,DLD,DZ,EN,EPRN,ES,HCCH,HPT,MLN,PPCP,PRN,PYN,TXP

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Call Number: NO REVIEW (24D,24DXY,ATZ,Ag,Cr,Cr element,Cu,MLN,Zn,Zn element)  
Notes: EcoReference No.: 115833  
Chemical of Concern: 24D,24DXY,ATZ,Ag,Cr,Cr element,Cu,MLN,PL,Zn,Zn element

32. Bodnaryk, R. P. Abdominal Bloat - an Unusual Symptom of Synthetic Pyrethroid Poisoning in Adults of Mamestra configurata (Lepidoptera: Noctuidae). MOR,PHYTOP; 1982; 114, (12): 1191-1194.   
Rec #: 530  
Call Number: LITE EVAL CODED (DM,PMR), NO ENDPOINT (MLN), TARGET2012 (DM)  
Notes: EcoReference No.: 121239  
Chemical of Concern: DDT,DM,MLN,PMR

33. Bonzini, S.; Tremolada, P.; Bernardinelli, I.; Colombo, M., and Vighi, M. Predicting Pesticide Fate in the Hive (Part 1): Experimentally Determined Tau-Fluvalinate Residues in Bees, Honey and Wax. ACC. [Tremolada, P] Univ Milan, Dept Biol, I-20133 Milan, Italy//: ENV; 2011; 42, (3): 378-390.   
Rec #: 2420  
Call Number: NO EFFECT (PMR), NO ENDPOINT (TAUF), NO PUBL AS (AMZ,CMPH,MLN)  
Notes: EcoReference No.: 157830  
Chemical of Concern: AMZ,CMPH,MLN,PMR,TAUF

34. Bride, J. M.; Cuany, A.; Amichot, M.; Brun, A.; Babault, M.; Le Mouel, T.; De Sousa, G.; Rahmani, R., and Berge, J. B. Cytochrome P-450 Field Insecticide Tolerance and Development of Laboratory Resistance in Grape Vine Populations of Drosophila melanogaster (Diptera: Drosophilidae). MORENV; 1997; 90, (6): 1514-1520.   
Rec #: 890  
Call Number: NO CONTROL (CPY,CYP,DCF,DM,DZ,FNT,FNV,FPN,MDT,MLN,MOM,TLM), TARGET2012 (CPY,CYP,DCF,DM,DZ,FNT,FNV,FPN,MDT,MOM,TLM)  
Notes: EcoReference No.: 114909  
Chemical of Concern: CPY,CYP,DCF,DDT,DM,DZ,EPRN,FNT,FNTH,FNV,FPN,MDT,MLN,MOM,PRN,TLM

35. Bringmann, G. and Kuhn, R. The Water-Toxicological Detection of Insecticides (Zum Wasser-Toxikologischen Nachweis von Insektiziden). MOR1960; 8, 243-244(GER) (ENG ABS).   
Rec #: 1910  
Call Number: NO CONTROL (Ag,CBL,Cr,Cr element,DHB,DZ,ES,MLN,SFZ,TCF)  
Notes: EcoReference No.: 58990  
Chemical of Concern: AN,AND,Ag,CBL,Cr,Cr element,DDT,DEM,DHB,DLD,DZ,EN,EPRN,ES,HCCH,HPT,MLN,PPCP,PRN,SFZ,TCF,TXP

36. Butler, P. A. Commercial Fishery Investigations. ACC,BEH,GRO,MOR,PHY,POP,SYSAQUA; 1964: 28 p. (Author Communication Used).   
Rec #: 740  
Call Number: LITE EVAL CODED (AZ,ES,PRT), NO CONTROL (24DXYBEE,24DXYEE,CBL,CMPH,DCPA,DCTP,DDVP,DMDP,DMT,DQT,DQTBr,DS,DU,EPTC,FNT,MCB,MLN,MP,MVP,Naled,PAQT,PPX,PQT,PSM,TBF,TCF,TMP,TMPO,TVP), NO ENDPOINT (24DXYBEE,DMDP,DMT,DQT,DQTBr,PAQT,PQT,TVP)  
Notes: EcoReference No.: 646  
Chemical of Concern: 24DXY,24DXYBEE,24DXYEE,AND,ANZ,AZ,CBL,CMPH,DCPA,DCTP,DDT,DDVP,DEM,DLD,DMDP,DMT,DQT,DQTBr,DS,DU,EN,EPRN,EPTC,ES,ETN,FNT,FNTH,HCCH,HPT,MCB,MCPAD,MLN,MP,MRX,MVP,MXC,NTP,Naled,PAQT,PEB,PPCP,PPHD,PPX,PQT,PRN,PRT,PSM,TBF,TCF,TMP,TMPO,TVP,TXP

37. Byford, R. L.; Sparks, T. C.; Green, B.; Knox, J., and Wyatt, W. Organophosphorus Insecticides for the Control of Pyrethroid-Resistant Horn Flies (Diptera: Muscidae). MOR,POPENV,MIXTURE,TOP; 1988; 81, (6): 1562-1566.   
Rec #: 1530  
Call Number: NO CONTROL (CMPH,CPY,DMT,DZ,FNV,MLN,PIRM,PMR,TCF), NO ENDPOINT (TVP), TARGET2012 (CMPH,CPY,DMT,DZ,FNV,PIRM,PMR,TCF,TVP)  
Notes: EcoReference No.: 114522  
Chemical of Concern: CMPH,CPY,DMT,DZ,ETN,FNV,MLN,PIRM,PMR,TCF,TVP

38. Calaf, G. M. and Garrido, F. Catechol Estrogens as Biomarkers for Mammary Gland Cancer. BCM,CEL,PHYINJECT,MIXTURE; 2011; 39, 177-183.   
Rec #: 2750  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162537  
Chemical of Concern: MLN,PPCP

39. Carter, W. G.; Tarhoni, M.; Rathbone, A. J., and Ray, D. E. Differential Protein Adduction by Seven Organophosphorus Pesticides in Both Brain and Thymus. BCMORAL; 2007; 26, (4): 347-353.   
Rec #: 950  
Call Number: NO ENDPOINT (CPYO,DZ,MLO,PIRM), NO IN VITRO (CPYO,DZ,MLO)  
Notes: EcoReference No.: 104950  
Chemical of Concern: AZM,CPYO,DZ,MLO,PIRM

40. Chadha, D. B.; Perti, S. L., and Dixit, R. S. Effect of Temperature and Humidity on the Susceptibility of Insects to Insecticides. MORENV; 1964: 28-32.   
Rec #: 1010  
Call Number: NO CONTROL (DZ,MLN), TARGET2012 (DZ)  
Notes: EcoReference No.: 39918  
Chemical of Concern: DDT,DLD,DZ,HCCH,MLN,PPCP

41. Champ, B. R.; Steele, R. W.; Genn, B. G., and Elms, K. D. A Comparison of Malathion, Diazinon, Fenitrothion and Dichlorvos for Control of Sitophilus oryzae (L.) and Rhyzopertha dominica (F.) in Wheat. MOR,REPENV,MIXTURE; 1969; 5, (1): 21-48.   
Rec #: 2330  
Call Number: NO CONTROL (DZ,FNT,MLN), TARGET2012 (DDVP,DZ,FNT)  
Notes: EcoReference No.: 153771  
Chemical of Concern: DDVP,DZ,FNT,MLN

42. Chandra, S. Toxic Effect of Malathion on Acetylcholinesterase Activity of Liver, Brain and Gills of Freshwater Catfish Heteropneustes fossilis. BCM,MORAQUA; 2008; 9, (3): 47-52.   
Rec #: 1920  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 118973  
Chemical of Concern: MLN

43. Chawla, R. P. and Bindra, O. S. Laboratory Screening of Some Safe Insecticides as Grain Protectants. MOR. Punjab Agric. Univ.,Ludhiana,India////: ENV; 1976; 10, (2): 29-31.   
Rec #: 70  
Call Number: NO CONTROL (MLN,PIRM,RSM,TMT,TVP), TARGET2012 (PIRM,RSM,TMT,TVP)  
Notes: EcoReference No.: 154932  
Chemical of Concern: MLN,PIRM,RSM,TMT,TVP

44. Chen, L.; Zhao, T.; Pan, C.; Ross, J.; Ginevan, M.; Vega, H., and Krieger, R. Absorption and Excretion of Organophosphorous Insecticide Biomarkers of Malathion in the Rat: Implications for Overestimation Bias and Exposure Misclassification from Environmental Biomonitoring. ACC. Personal Chemical Exposure Program, Environmental Toxicology Graduate Program, Dept. of Entomology, U. California, Riverside, CA 92521, USA.//: SOIL,ENV,ORAL; 2013; 65, (3): 287-293.   
Rec #: 2570  
Call Number: NO CONTROL (MLN), NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162563  
Chemical of Concern: MLN

45. Chhokar, R. S. and Balyan, R. S. Competition and Control of Weeds in Soybean. GRO,POP,REP. R.S. Balyan, Department of Agronomy, Chaudhary C.S. Haryana Agric. Univ., Hisar - 125 004, India//: SOIL,ENV,MIXTURE; 1999; 47, (1): 107-111.   
Rec #: 80  
Call Number: LITE EVAL CODED (PDM), NO EFFECT (ES,MLN), OK (CRM,TFN)  
Notes: EcoReference No.: 156800  
Chemical of Concern: CRM,ES,FZF,MLN,PDM,TFN

46. Childers, C. C. and Enns, W. R. Field Evaluation of Early Season Fungicide Substitutions on Tetranychid Mites and the Predators Neoseiulus fallacis and Agistemus fleschneri in Two Missouri Apple Orchards. POPENV,MIXTURE; 1975; 68, (5): 719-724.   
Rec #: 1140  
Call Number: NO MIXTURE (AZ,Captan,MLN,PSM,STRP), OK (BMY,DOD), TARGET2012 (AZ,PSM,SFR)  
Notes: EcoReference No.: 113437  
Chemical of Concern: AZ,BMY,Captan,DOD,FBM,MLN,PSM,SFR,STRP,Zineb

47. Clinch, P. G. and Faulke, J. Toxicity to the External Mite Acarapis externus Morgenthaler of Pesticides fed in Sugar Syrup to Infested Honey Bees. MORORAL; 1977; 5, 185-187.   
Rec #: 2240  
Call Number: NO ENDPOINT (CPY,DCTP,DZ,ES,MLN,MOM,OXD,PPX,TVP)  
Notes: EcoReference No.: 151327  
Chemical of Concern: CPY,DCTP,DZ,ES,MLN,MOM,OXD,PHSL,PIM,PPX,TVP

48. Clower, D. F. and Matthysse, J. G. Phytotoxicity of Insecticides in Mist Concentrate Type Formulations. MOR,PHYSOIL,ENV; 1954; 47, 735-738.   
Rec #: 1630  
Call Number: NO CONTROL (AMSV,ARM,MLN), NO ENDPOINT (AMSV,ARM,MLN)  
Notes: EcoReference No.: 40868  
Chemical of Concern: AMSV,AND,ARM,DDT,DLD,EN,HCCH,HPT,MLN,MXC,PPCP,TXP

49. Cochran, D. G. Monitoring for Insecticide Resistance in Field-Collected Strains of the German Cockroach (Dictyoptera: Blattellidae). MORENV; 1989; 82, (2): 336-341.   
Rec #: 1470  
Call Number: NO CONTROL (ACP,ATN,CPY,CYF,DZ,FNV,MLN,PMR,PPX,SMT), TARGET2012 (ACP,ATN,CPY,CYF,DZ,FNV,PMR,PPX,SMT)  
Notes: EcoReference No.: 113738  
Chemical of Concern: ACP,ATN,BDC,CPY,CYF,DZ,FNV,MLN,PMR,PPX,PYN,SMT

50. Coffin, D. E. Oxidative Metabolism and Persistence of Parathion and Malathion on Field-Sprayed Lettuce. ACCSOIL,ENV; 1966; 49, (5): 1018-1021.   
Rec #: 1570  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 97541  
Chemical of Concern: EPRN,MLN,PRN

51. Cohen, S. D. and Murphy, S. D. Comparative Potentiation of Malathion by Triorthotolyl Phosphate in Four Classes of Vertebrates. BCMINJECT,MIXTURE; 1970; 16, 701-708.   
Rec #: 760  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 36207  
Chemical of Concern: MLN

52. Collins, P. J. and Wilson, D. Efficacy of Current and Potential Grain Protectant Insecticides Against a Fenitrothion-Resistant Strain of the Sawtoothed Grain Beetle, Oryzaephilus surinamensis L. MORENV; 1987; 20, (2): 93-104.   
Rec #: 1070  
Call Number: NO CONTROL (BRSM,CBL,CPYM,CYF,CYP,DDVP,DM,FNT,MLN,PIRM,PMR)  
Notes: EcoReference No.: 70193  
Chemical of Concern: BRSM,CBL,CPYM,CYF,CYP,DDVP,DM,FNT,MLN,PIRM,PMR

53. Cone, W. W. Control of the Black Vine Weevil on Concord Grapes in Central Washington. MOR,POPENV,MIXTURE; 1965; 58, (1): 115-119.   
Rec #: 90  
Call Number: NO ENDPOINT (MLN,PSM), NO MIXTURE (MLN)  
Notes: EcoReference No.: 162347  
Chemical of Concern: AND,DLD,EN,MLN,PSM

54. Cope, O. B. Effects of Pesticides on Fish and Wildlife: 1964 Research Findings of the Fish and Wildlife Service. ACC,BCM,CEL,GRO,MOR,PHY,POP,REPAQUA,ENV,INJECT,ORAL,Unspecified; 1965: 51-63.   
Rec #: 1040  
Call Number: LITE EVAL CODED (ADC,AMSV,ARM,ATN,BS,BTY,CBL,CuCl,CuS,DBAC,DDVP,DMT,DQT,DU,DZ,FNT,MCB,MLT,MVP,Naled,PAQT,RTN,SZ,TCF,TFN,TMP), NO CONTROL (ADC,AMSV,ARM,ATN,BS,BTY,CBL,CuCl,CuS,DBAC,DDVP,DMT,DU,DZ,FNT,MCB,MLT,MVP,Naled,PAQT,RTN,SZ,TCF,TFN,TMP), NO ENDPOINT (DQT,MLN)  
Notes: EcoReference No.: 2871  
Chemical of Concern: 24DB,24DXY,ADC,AMSV,AND,ARM,ATN,AsO3Na,BS,BTY,CBL,CHD,CuCl,CuS,DBAC,DBN,DDT,DDVP,DLD,DMT,DQT,DU,DZ,EN,EPRN,FNF,FNT,FNTH,HCCH,HPT,MCB,MLN,MLT,MRX,MVP,MXC,Naled,PAQT,PPCP,PRN,RTN,SZ,TCF,TFN,TMP,TXP,VNT

55. ---. Sport Fishery Investigations. ACC,BCM,GRO,MORAQUA,ENV; 1964: 29-43.   
Rec #: 1800  
Call Number: NO CONTROL (DMT,Naled,RTN), NO ENDPOINT (MLN)  
Notes: EcoReference No.: 117727  
Chemical of Concern: 24DXY,AND,AsO3Na,DDT,DLD,DMT,EN,HCCH,HPT,MLN,Naled,PPCP,PPHD,PYN,RTN,TXP

56. Coppage, D. L. Organophosphate Pesticides: Specific Level of Brain AChE Inhibition Related to Death in Sheepshead Minnows. BCM,MOR. 14659//: AQUA; 1972; 101, (3): 534-536.   
Rec #: 1520  
Call Number: NO CONC (DDVP,DMT,DZ,MLN,MP,Naled), NO CONTROL (AZ,CPY,DDVP,DMT,DZ,MLN,MP,Naled,PRT), NO ENDPOINT (AZ,CPY,DDVP,DMT,DZ,MLN,MP,Naled,PRT)  
Notes: EcoReference No.: 45307  
Chemical of Concern: AZ,CPY,DDVP,DMT,DZ,EPRN,MLN,MP,Naled,PPHD,PRN,PRT

57. Cothran, W. R.; Armbrust, E. J.; Horn, D. J., and Gyrisco, G. G. Field Evaluation of Experimental and Recommended Insecticides for Control of the Alfalfa Weevil in New York. POPENV,MIXTURE; 1967; 60, (4): 1151-1154.   
Rec #: 100  
Call Number: NO MIXTURE (MLN,PPX), PESTS (ADC,CBF,CPY,PRT,PSM), TARGET2012 (AZ,CBL,MP,PPX)  
Notes: EcoReference No.: 162339  
Chemical of Concern: ADC,AZ,CBF,CBL,CPY,EPRN,FNTH,MLN,MP,MXC,PPX,PRN,PRT,PSM

58. Das, S. and Gupta, A. Effect of Malathion (EC50) on Gill Morphology of Indian Flying Barb, Esomus danricus (Hamilton-Buchanan). CEL. Department of Life Science and Bioinformatics, Assam University, Silchar, 788 011, India.////: AQUA; 2012; 4, (6): 626-628.   
Rec #: 2470  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162414  
Chemical of Concern: MLN

59. Dauterman, W. C. and Main, A. R. Relationship Between Acute Toxicity and In Vitro Inhibition and Hydrolysis of a Series of Carbalkoxy Homologs of Malathion. MORMIXTURE,ORAL; 1966; 9, (2): 408-418.   
Rec #: 1710  
Call Number: NO CONTROL (MLN,MLO)  
Notes: EcoReference No.: 95179  
Chemical of Concern: MLN,MLO

60. Davidson, G. DDT-Resistance and Dieldrin-Resistance in Anopheles albimanus. MORAQUA; 1963; 28, 25-33.   
Rec #: 110  
Call Number: NO CONTROL (MLN), NO ENDPOINT (MLN)  
Notes: EcoReference No.: 150038  
Chemical of Concern: AND,CHD,DDT,DLD,EN,HCCH,MLN,MXC,PPCP

61. De Bruijn, J. and Hermens, J. Inhibition of Acetylcholinesterase and Acute Toxicity of Organophosphorous Compounds to Fish: A Preliminary Structure-Activity Analysis. BCM,MORAQUA; 1993; 24, (3/4): 257-274.   
Rec #: 1270  
Call Number: NO CONTROL (AZ,MDT,MLN,PIRM,PSM), NO ENDPOINT (AZ,MDT,MLN,PIRM,PSM)  
Notes: EcoReference No.: 90769  
Chemical of Concern: AZ,MDT,MLN,PIRM,PSM

62. Deichmann, W. B. Protection Against the Acute Effects of Certain Pesticides by Pretreatment with Aldrin, Dieldrin and DDT. BCM,MORMIXTURE,ORAL; 1970: 121-123.   
Rec #: 1690  
Call Number: NO CONTROL (DZ,MLN)  
Notes: EcoReference No.: 73109  
Chemical of Concern: AND,CHD,DDT,DLD,DZ,EPRN,MLN,PRN,TXP

63. Deka, N.; Borah, D. C., and Das, P. K. Insecticidal Control Against Major Insect Pests of Mungbean (Vigna radiata (L.) Wilczek). MOR,POP. Dep. Entomol., CCSHAU, Hisar-125004, India////: SOIL,ENV; 1998; 14, (2): 195-198.   
Rec #: 120  
Call Number: NO ENDPOINT (AZD,DM,ES,MLN)  
Notes: EcoReference No.: 158665  
Chemical of Concern: AZD,DM,ES,MLN,PPHD

64. Dennis, E. B. and Edwards, C. A. Phytotoxicity of Insecticides and Acaricides. I. Foliage Sprays. PHYSOIL,ENV; 1961; 10, 54-60.   
Rec #: 1640  
Call Number: NO ENDPOINT (DCF,DMT,DZ,MLN,MVP,TEPP)  
Notes: EcoReference No.: 40670  
Chemical of Concern: AND,DCF,DDT,DLD,DMT,DZ,EPRN,FLAC,HCCH,MLN,MVP,PPCP,PRN,TEPP

65. ---. Phytotoxicity of Insecticides and Acaricides. II. Flowers and Ornamentals. PHYSOIL,ENV; 1963; 12, 27-36.   
Rec #: 1650  
Call Number: NO CONTROL (ALSV,DCF,DMT,DZ,MLN,NCTN,TEPP), NO ENDPOINT (ALSV,DCF,DMT,DZ,MLN,NCTN,TEPP)  
Notes: EcoReference No.: 40669  
Chemical of Concern: ALSV,AND,DCF,DDT,DLD,DMT,DZ,EPRN,ETN,FLAC,HCCH,MLN,NCTN,PPCP,PPHD,PRN,PYN,TEPP

66. Deo, P. G.; Hasan, S. B., and Majumder, S. K. Toxicity and Suitability of Some Insecticides for Household Use. MORTOP; 1988; 30, 118-121,129.   
Rec #: 1930  
Call Number: LITE EVAL CODED (BRSM,CBL,CYP,DCF,DDVP,DM,DMT,DZ,ES,FNT,FNV,MP,PIRM,PMR,TVP), NO CONTROL (BRSM,CBL,CYP,DCF,DDVP,DM,DMT,DZ,EFV,ES,FNT,FNV,MLN,MP,PIRM,PMR,TVP), NO ENDPOINT (TVP)  
Notes: EcoReference No.: 35123  
Chemical of Concern: AND,BRSM,CBL,CHD,CYP,DCF,DDT,DDVP,DEM,DM,DMT,DZ,EFV,EN,EPRN,ES,FNT,FNV,HCCH,HPT,MLN,MP,MXC,PIRM,PMR,PPCP,PRN,PYN,TVP

67. Dhingra, S.; Murugesan, K., and Sridevi, D. Insecticidal Safety Limits for the Coccinellid, Menochilus sexmaculatus Fabricius Predating on Different Aphid Species. MOR. Div. Entomology, Indian Agric. Res. Inst., New Delhi-110012, India////: ENV; 1995; 19, (1): 43-47.   
Rec #: 130  
Call Number: NO CONC (CYP,DM,ES,FNV,MLN), TARGET2012 (CYP,DM)  
Notes: EcoReference No.: 154473  
Chemical of Concern: CYP,DM,ES,FNV,HCCH,MLN,PPCP,PPHD

68. Dhingra, S. and Sarup, P. Detection of Resistance in the Blister Beetle, Mylabris pustulata Thunb. to Various Insecticides Evaluated During the Last Quarter Century. MORENV; 1992; 16, (3): 231-235.   
Rec #: 910  
Call Number: NO CONTROL (CBL,CYP,DM,DMT,FNV,FPP,LCYT,MLN,MP), PESTS (DMT,FNV,FPP), TARGET2012 (CBL,CYP,DM,LCYT,MP)  
Notes: EcoReference No.: 75778  
Chemical of Concern: ACYP,CBL,CYP,DM,DMT,FNV,FPP,HCCH,LCYT,MLN,MP,PPCP,PPHD

69. Dos Santos, A. A.; Dos Santos, D. B.; Ribeiro, R. P.; Colle, D.; Peres, K. C.; Hermes, J.; Barbosa, A. M.; Dafre, A. L.; De Bem, A. F.; Kuca, K., and Farina, M. Effects of K074 and Pralidoxime on Antioxidant and Acetylcholinesterase Response in Malathion-Poisoned Mice. BCM. Departamento de Bioquimica, Centro de Ciencias Biologicas, Universidade Federal de Santa Catarina, 88040900, Florianopolis, Santa Catarina, Brazil, alessandraantunes@hotmail.com//: INJECT; 2011; 32, (6): 888-895.   
Rec #: 2600  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162553  
Chemical of Concern: MLN

70. Drummond, R. O.; Ernst, S. E.; Trevino, J. L.; Gladney, W. J., and Graham, O. H. Tests of Acaricides for Control of Boophilus annulatus and B. microplus. MORENV; 1976; 69, (1): 37-40.   
Rec #: 1860  
Call Number: NO CONTROL (AMZ,As,CMPH,CPY,MLN,PSM)  
Notes: EcoReference No.: 99766  
Chemical of Concern: AMZ,As,CMPH,CPY,ETN,HCCH,IFP,MLN,PPCP,PSM,TXP

71. Drummond, R. O.; Whetstone, T. M., and Ernst, S. E. Insecticidal Control of the Ear Tick in the Ears of Cattle. MORENV,MIXTURE; 1967; 60, (4): 1021-1025.   
Rec #: 140  
Call Number: NO ENDPOINT (AMSV,CBL,CMPH,CPY,DDVP,DZ,MLN,PPB,PSM,TCF), TARGET2012 (CBL,CMPH,CPY,DDVP,DZ,PSM,TCF)  
Notes: EcoReference No.: 162307  
Chemical of Concern: AMSV,CBL,CMPH,CPY,DDVP,DZ,FNTH,HCCH,MLN,PINE,PPB,PPCP,PSM,PYN,TCF,TXP

72. Dyte, C. E. and Blackman, D. G. Laboratory Evaluation of Organophosphorus Insecticides Against Susceptible and Malathion-Resistant Strains of Tribolium castaneum (Herbst) (Coleoptera, Tenebrionidae). MORTOP; 1972; 8, (2): 103-109.   
Rec #: 2290  
Call Number: NO CONTROL (DCTP,DMT,MLN,MLO,MVP), PESTS (DMT), TARGET2012 (DCTP,MVP)  
Notes: EcoReference No.: 162519  
Chemical of Concern: DCTP,DMT,MLN,MLO,MVP

73. Dzwonkowska, A. and Hubner, H. Induction of Chromosmal Aberrations in the Syrian Hamster by Insecticides Tested In Vivo. CEL,MORINJECT; 1986; 58, (3): 152-156.   
Rec #: 1220  
Call Number: LITE EVAL CODED (DDVP,DMT,ES,TCF), NO EXP TYPE (CBL,DDVP,DMT,ES,MLN,PPX,TCF), NO MIXTURE (CBL,PPX)  
Notes: EcoReference No.: 90770  
Chemical of Concern: CBL,DDVP,DMT,ES,HCCH,MLN,MXC,PPCP,PPX,TCF

74. El-Refai, A. and Hopkins, T. L. Malathion Absorption, Translocation, and Conversion to Malaoxon in Bean Plants. ACCSOIL,ENV; 1972; 55, (3): 526-531.   
Rec #: 1410  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 98012  
Chemical of Concern: MLN

75. Ennik, G. C. and Hofman, T. B. Response of Pasture Grass to Thionazin and Other Pesticides. POPSOIL,ENV,MIXTURE; 1977: 41 p.   
Rec #: 1770  
Call Number: NO ENDPOINT (ADC,BMY,CAP,CBF,CBL,CFRM,CQTC,DMT,DZ,EPH,FMP,MLN,MOM,OML,PRT,TBO,TMP)  
Notes: EcoReference No.: 107086  
Chemical of Concern: ADC,BMY,CAP,CBF,CBL,CQTC,DMT,DZ,EPH,EPRN,FMP,MLN,MOM,OML,PRN,PRT,TBO,TMP

76. Eto, M.; Oshima, Y.; Kitakata, S.; Tanaka, F., and Kojima, K. Studies on Saligenin Cyclic Phosphorus Esters with Insecticidal Activity. Part X. Synergism of Malathion Against Susceptible and Resistant Insects. MORTOP; 1966; 31, 33-38.   
Rec #: 2130  
Call Number: NO CONTROL (MLN,Naled)  
Notes: EcoReference No.: 162525  
Chemical of Concern: MLN,Naled

77. Fernandez-Alba, A. R.; Guil, L. H.; Lopez, G. D., and Chisti, Y. Toxicity of Pesticides in Wastewater: A Comparative Assessment of Rapid Bioassays. BEH,MORAQUA,MIXTURE; 2001; 426, (2): 289-301.   
Rec #: 1960  
Call Number: LITE EVAL CODED (CBF,CYR,FMP,FTT), NO REVIEW (CBL,DZ,MLN,PQT)  
Notes: EcoReference No.: 74540  
Chemical of Concern: CBF,CBL,CYR,DDT,DZ,FMP,FTT,K2Cr2O7,MLN,PPM,PQT

78. Fewkes, D. W. and Buxo, D. A. Recent Work on Chemical Control of the Sugarcane Froghopper (Homoptera, Cercopidae) in Trinidad. POPENV,MIXTURE; 1966; 1, 192-223.   
Rec #: 150  
Call Number: NO MIXTURE (MLN), TARGET2012 (CBL,CPY,DCTP,DMT,FNT,MCB,MDT,OXD,PRT,PSM,TCF,TMP)  
Notes: EcoReference No.: 162286  
Chemical of Concern: CBL,CPY,DCTP,DDT,DMT,FNT,HCCH,MCB,MDT,MLN,MXC,OXD,PPCP,PRT,PSM,TCF,TMP,TXP

79. Forest Protection Ltd. Operations of Forest Protection Ltd. 1972. MOR,POPAQUA,ENV; 1972: 143 p.   
Rec #: 2340  
Call Number: NO ENDPOINT (ACP,ATN,CBL,CPY,CPYM,DMT,FNT,MDT,MLN,Naled,PSM,RSM,TCF,TMT,TVP)  
Notes: EcoReference No.: 161171  
Chemical of Concern: ACP,ATN,CBL,CPY,CPYM,DDT,DMT,FNT,MDT,MLN,Naled,PPHD,PSM,RSM,TCF,TMT,TVP

80. Frank, R.; Braun, H. E.; Ripley, B. D., and Pitblado, R. Residues of Nine Insecticides and Two Fungicides in Raw and Processed Tomatoes. ACC. Agric. Lab. Services Branch, Ontario Ministry Agric. Food, Univ. Guelph, Guelph, Ontario N1G 2W1////: SOIL,ENV; 1991; 54, (1): 41-46.   
Rec #: 160  
Call Number: NO CONTROL (ACP,AZ,CAP,CBL,CTN,DMT,DZ,ES,MLN,PMR), NO ENDPOINT (ACP,AZ,CAP,CBL,CTN,DMT,DZ,ES,MLN,PMR), TARGET2012 (CBL)  
Notes: EcoReference No.: 156439  
Chemical of Concern: ACP,AZ,CAP,CBL,CTN,DEM,DMT,DZ,ES,MLN,PMR

81. Gaaboub, I. A.; Rawash, I. A.; Tag-el-Din, A., and Hassanein, M. A. T. Joint Action of Six Herbicides with Malathion Against Mosquito Larvae of Culex pipiens L. MOR,REPMIXTURE,Unspecified; 1981; 20, 61-70.   
Rec #: 1360  
Call Number: NO DURATION (MLN), NO ENDPOINT (MLN,PPN,TBC,TFN)  
Notes: EcoReference No.: 14500  
Chemical of Concern: MLN,ODZ,PPN,TBC,TFN

82. Gafar, M. O.; Dagash, Y. M. I.; Elhag, A. Z., and Hassan, Y. O. Residual Effect of Malathion (Organophosphate) and Sevin (Carbamate) Application on Potato (Solanum tuberosum). GRO,POP. m\_gafar50@yahoo.com//Sudan University of Science and Technology, Khartoum, P.O. Box 71. Khartoum North, Shambat, Sudan, //: SOIL,ENV; 2011; 1, (4): 226-230.   
Rec #: 2390  
Call Number: NO CONTROL (CBL,MLN), NO ENDPOINT (CBL,MLN), TARGET2012 (CBL)  
Notes: EcoReference No.: 158652  
Chemical of Concern: CBL,MLN

83. Gaines, T. B. Acute Toxicity of Pesticides. MORORAL,TOP; 1969; 14, (3): 515-534.   
Rec #: 600  
Call Number: NO CONTROL (ADC,AMSV,AZ,CBL,CMPH,CPY,DCF,DCTP,DDVP,DMT,DPC,DS,DZ,ES,FNT,KCN,MLN,MP,MVP,Naled,OXD,PCP,PPB,PPCP,PPG,PPX,PQT,PRT,PSM,TBF,TCF,TEPP,THM,TMP,TVP,WFN)  
Notes: EcoReference No.: 36729  
Chemical of Concern: ADC,AMSV,AND,AZ,CBL,CHD,CMPH,CPY,DCF,DCTP,DDE,DDT,DDVP,DEM,DLD,DMT,DPC,DS,DZ,EN,EPRN,ES,FNT,FNTH,HCCH,HPT,KCN,MLN,MP,MRX,MVP,Naled,OTQ,OXD,PCP,PPB,PPCP,PPG,PPHD,PPX,PQT,PRN,PRT,PSM,PVL,TBF,TCF,TEPP,THM,TMMC,TMP,TVP,TXP,WFN,Zineb

84. Gaughan, L. C.; Engel, J. L., and Casida, J. E. Pesticide Interactions: Effects of Organophosphorus Pesticides on the Metabolism, Toxicity, and Persistence of Selected Pyrethroid Insecticides. BCM,MORSOIL,INJECT,MIXTURE,TOP,Unspecified; 1980; 14, (1): 81-85.   
Rec #: 1580  
Call Number: LITE EVAL CODED (MOM,MP,PFF), NO CONTROL (ACP,AZ,CBL,MOM,MP,TBF), NO MIXTURE (CYP,FNV,MLN,TPMR)  
Notes: EcoReference No.: 89315  
Chemical of Concern: ACP,AZ,CBL,CYP,FNV,MLN,MOM,MP,PFF,SPS,TBF,TPMR

85. Gentile, A. G.; Vaughan, A. W., and Pfeiffer, D. G. Cucumber Pollen Germination and Tube Elongation Inhibited or Reduced by Pesticides and Adjuvants. GRO,PHY,REPSOIL,ENV; 1978; 7, (5): 689-691.   
Rec #: 880  
Call Number: NO ENDPOINT (BMY,CBL,Captan,DCF,DZ,ES,MLN,PPB), TARGET2012 (CBL)  
Notes: EcoReference No.: 49479  
Chemical of Concern: BMY,CBL,Captan,DCF,DZ,ES,MLN,MXC,PPB

86. Georghiou, G. P.; Ariaratnam, V.; Pasternak, M. E., and Lin, C. S. Organophosphorus Multiresistance in Culex pipiens quinquefasciatus in California. MORAQUA,MIXTURE; 1975; 68, (4): 461-467.   
Rec #: 1550  
Call Number: NO CONTROL (CBF,CPY,CPYM,DFZ,FNT,MLN,MP,MPO,MTPN,PPB,PPX,PTPMR,RSM,TBF,TMP)  
Notes: EcoReference No.: 66610  
Chemical of Concern: CBF,CPY,CPYM,DDT,DFZ,EPRN,FNT,FNTH,MLN,MP,MPO,MTPN,PPB,PPX,PRN,PTPMR,RSM,TBF,TMP

87. Gilbertson, M. K.; Haffner, G. D.; Drouillard, K. G.; Albert, A., and Dixon, B. Immunosuppression in the Northern Leopard Frog (Rana pipiens) Induced by Pesticide Exposure. PHYINJECT; 2003; 22, (1): 101-110.   
Rec #: 1180  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 68828  
Chemical of Concern: DDT,DLD,MLN

88. Gjullin, C. M.; Scudder, H. I., and Erwin, W. R. Determination of Malathion and Its Influence on Flavor of Milk from Cows Fed Malathion-Sprayed Alfalfa. ACC,MORAQUA,ENV; 1955; 3, (6): 508-509.   
Rec #: 2100  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162406  
Chemical of Concern: MLN

89. Gojmerac, W. L. Effects of Insecticides on Germination and Emergence of Sugar Beets Under Greenhouse Conditions. GRO,PHY,POP,REPSOIL,ENV; 1956; 49, (5): 710-711.   
Rec #: 1020  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 26047  
Chemical of Concern: AND,CHD,DLD,HPT,MLN,MXC

90. Greenberg, J. Malathion Induced Terata and Their Biochemical Implications in the Developing Chick Embryo. ACC,BCM,CEL,GRO,MORINJECT,MIXTURE; 1971: 286 p. (UMI #DC52353).   
Rec #: 1420  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 118834  
Chemical of Concern: MLN,PPCP

91. Gupta, A. and Gupta, M. N. Effect of Certain Toxicants on the Activity of 5-Nucleotidase in the Gills of Trichogaster fasciatus. BCMAQUA; 1986; 15, (3): 1 p.(ABS) (105:20149v).   
Rec #: 960  
Call Number: NO CONTROL (MLN), NO ENDPOINT (MLN)  
Notes: EcoReference No.: 12169  
Chemical of Concern: HCCH,MLN,PPCP

92. ---. Effect of Certain Toxicants on the Activity of 5-Nucleotidase in the Gills of Trichogaster fasciatus. BCMAQUA; 1985; 55, 18-20.   
Rec #: 2270  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162415  
Chemical of Concern: MLN

93. Hadani, A. and Egyed, M. N. Use of the Chick Embryo for Testing the Toxicity of Cholinesterase-Inhibiting Compounds. BCMINJECT; 1967; 10, 313-321.   
Rec #: 2030  
Call Number: NO EXP TYPE (MLN,TCF)  
Notes: EcoReference No.: 36947  
Chemical of Concern: MLN,TCF

94. Hair, J. A. and Adkins, T. R. Jr. Dusting Stations and Cable Backrubbers as Self-Applicatory Devices for Control of the Face Fly. POPENV,MIXTURE; 1965; 58, (1): 39-40.   
Rec #: 170  
Call Number: NO ENDPOINT (AZ,CBL,CMPH,DMT,DZ,MLN,PSM), TARGET2012 (AZ,CBL,CMPH,DMT,DZ,PSM)  
Notes: EcoReference No.: 162311  
Chemical of Concern: AZ,CBL,CMPH,DDT,DMT,DZ,FNTH,MLN,PSM,TXP

95. Hall, R. A. Laboratory Studies on the Effects of Fungicides, Acaricides and Insecticides on the Entomopathogenic Fungus, Verticillium lecanii. PHY,POP,REPENV; 1981; 29, (1): 39-48.   
Rec #: 1380  
Call Number: NO ENDPOINT (BMY,CBL,CTN,Captan,DCF,DFZ,DZ,FRM,IPD,MLN,MZB,Maneb,PMR,TFR,THM,VCZ), TARGET2012 (TFR)  
Notes: EcoReference No.: 94390  
Chemical of Concern: BMY,CBL,CHX,CTN,Captan,Conazoles,DCF,DFZ,DIE,DINO,DZ,FRM,ILL,IPD,MLN,MZB,Maneb,OTQ,OXC,PIM,PMR,TFR,THM,VCZ,Zineb

96. Hama, H. Development of Pyrethroid Resistance in the Diamondback Moth, Plutella xylostella LINNE (Lepidoptera: Yponomeutidae). MORMIXTURE,TOP; 1987; 22, (2): 166-175.   
Rec #: 940  
Call Number: NO CONTROL (CBL,CHT,CYP,FNV,FPP,FVL,MLN,MOM,PFF,PMR,PPB,RSM,SMT,TBF,TMT), NO MIXTURE (PPB,TBF), PESTS (FNV,FPP,FVL,MOM,PMR,SMT), TARGET2012 (CBL,CHT,CYP,PFF,RSM,TMT)  
Notes: EcoReference No.: 112647  
Chemical of Concern: CBL,CHT,CYP,DDT,FNV,FPP,FVL,MLN,MOM,PFF,PMR,PPB,PYN,RSM,SMT,TBF,TMT

97. Henson-Ramsey, H.; Schneider, A., and Stoskopf, M. K. A Comparison of Multiple Esterases as Biomarkers of Organophosphate Exposure and Effect in Two Earthworm Species. ACC,BCMSOIL,ENV; 2011; 86, (4): 373-378.   
Rec #: 2300  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 158650  
Chemical of Concern: MLN

98. Heong, K. L. and Ng, K. J. The Control of Nephotettix virescens (Dist.) and Prevention of Tungro Virus by Insecticides. MORENV,MIXTURE; 1978; 6, (1): 36-47.   
Rec #: 180  
Call Number: NO ENDPOINT (ACP,CBF,CBL,CPYM,DDVP,DMT,DZ,ES,FNT,MLN,MOM,PSM,TVP), TARGET2012 (ACP,CBF,CBL,CPYM,DDVP,DMT,DZ,ES,FNT,MOM,PSM,TVP)  
Notes: EcoReference No.: 162161  
Chemical of Concern: ACP,CBF,CBL,CPYM,DDVP,DMT,DZ,EN,ES,FNT,FNTH,HCCH,MLN,MOM,PPCP,PPHD,PSM,TVP

99. Herron, G. A. Resistance to Grain Protectants and Phosphine in Coleopterous Pests of Grain Stored on Farms in New South Wales. MORENV; 1990; 29, (3): 183-189.   
Rec #: 1740  
Call Number: NO ENDPOINT (BRSM,CBL,CPYM,FNT,MLN,PIRM,PPHN), PESTS (CPYM,PPHN), TARGET2012 (BRSM,CBL,FNT,PIRM)  
Notes: EcoReference No.: 70674  
Chemical of Concern: BRSM,CBL,CPYM,FNT,MLN,PIRM,PPHN

100. Hidayat, I. and Preston, C. Enhanced Metabolism of Fluazifop Acid in a Biotype of Digitaria sanguinalis Resistant to the Herbicide Fluazifop-P-Butyl. ACC,BCM,MOR. cpreston@walte.adelaide.edu.au//C. Preston, CRC for Weed Management Systems, Department of Crop Protection, University of Adelaide, Glen Osmond, SA 5064, Australia//: SOIL,ENV,MIXTURE,TOP; 1997; 57, (2): 137-146.   
Rec #: 1110  
Call Number: NO CONTROL (CLT,MLN,PPB,QZFPE,SXD), NO MIXTURE (MLN,PPB), WEEDS (CLT,QZFPE,SXD)  
Notes: EcoReference No.: 64594  
Chemical of Concern: CLT,FZFB,HFPM,MLN,PPB,QZFPE,SXD,TKY

101. Hislop, R. G. and Prokopy, R. J. Integrated Management of Phytophagous Mites in Massachusetts (U.S.A.) Apple Orchards. 2. Influence of Pesticides on the Predator Amblyseius fallacis (Acarina: Phytoseiidae) Under Laboratory and Field Conditions. MOR,POP,REPSOIL,ENV,TOP; 1981; 3, (2): 157-172.   
Rec #: 1320  
Call Number: NO ENDPOINT (1Major ions,AZ,BMY,CBL,CaCl2,Captan,DCF,DMT,DMZ,DOD,DZ,EPH,ES,FBOX,FNV,FTT,FTTCl,GYP,Halides,MLN,MOM,MP,Maneb,PAQT,PMR,PPG,PSM,SZ,THM), TARGET2012 (AZ,CBL,DCF,DMT,DZ,ES,FBOX,FNV,FTT,FTTCl,MOM,MP,PMR,PPG,PSM)  
Notes: EcoReference No.: 70632  
Chemical of Concern: 1Major ions,AZ,BMY,CBL,CHX,CaCl2,Captan,DCF,DEM,DINO,DMT,DMZ,DOD,DZ,EPH,ES,FBM,FBOX,FNV,FTT,FTTCl,GYP,Halides,MLN,MOM,MP,MXC,Maneb,NAA,PAQT,PHSL,PMR,PPG,PPHD,PSM,SZ,THM

102. Ho, M. and Gibson, M. A. A Histochemical Study of the Developing Tibiotarus in Malathion-Treated Chick Embryos. CELINJECT; 1972; 50, 1293-1298.   
Rec #: 2490  
Call Number: NO ENDPOINT (MLN), NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162501  
Chemical of Concern: MLN

103. ---. Histogenesis of the Tibiotarsus in Malathion-Treated Chick Embryos. GROINJECT; 1972; 50, (6): 771-775.   
Rec #: 2830  
Call Number: NO ENDPOINT (MLN), NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162527  
Chemical of Concern: MLN

104. Hua, J.; Cothran, R.; Stoler, A., and Relyea, R. Cross-Tolerance in Amphibians: Wood Frog Mortality when Exposed to Three Insecticides with a Common Mode of Action. MORAQUA; 2013; 32, (4): 932-936.   
Rec #: 2760  
Call Number: NO ENDPOINT (CBL,CPY,MLN)  
Notes: EcoReference No.: 162444  
Chemical of Concern: CBL,CPY,MLN

105. Hwang, S. F.; Conner, R. L.; Chang, K. F.; Gossen, B. D.; Su, H.; Howard, R. J., and Turnbull, G. D. Impact of Seeding Rate and Depth on Mycosphaerella Blight and Seed Yield of Field Pea. POPSOIL,ENV; 2006; 86, (3): 845-853.   
Rec #: 190  
Call Number: EFFICACY (CTN), NO EFFECT (BT,GYPI,MLN)  
Notes: EcoReference No.: 156694  
Chemical of Concern: BT,CTN,GYPI,IZT,MLN

106. Isa, A. L.; Awadallah, W. H.; Tantawy, A. M., and Bishara, M. A. On the Chemical Control of the Rice Stem Borer. POPENV; 1970; 4, 117-125.   
Rec #: 1500  
Call Number: NO ENDPOINT (AZ,CBL,CPY,DZ,FNT,MLN,TCF), TARGET2012 (AZ,CBL,DZ,FNT,TCF)  
Notes: EcoReference No.: 50503  
Chemical of Concern: AZ,CBL,CPY,DDT,DZ,EN,EPRN,FNT,FNTH,HCCH,MLN,PHSL,PPCP,PRN,TCF

107. Iverson, F. Inhibition and Regeneration of Rat Liver Enzymes Hydrolyzing Acetanilide and O-Nitrophenyl Butyrate. BCMINJECT; 1977; 18, (4): 466-471.   
Rec #: 1260  
Call Number: NO ENDPOINT (ADC,AZ,CBL,DZ,FNT,MLN,MOM), NO EXP TYPE (ADC,AZ,CBL,DZ,FNT,MLN,MOM)  
Notes: EcoReference No.: 103799  
Chemical of Concern: ADC,AZ,CBL,DZ,EPRN,FNT,MLN,MOM,PRN

108. Jebali, J.; Banni, M.; Guerbej, H.; Almeida, E. A.; Bannaoui, A., and Boussetta, H. Effects of Malathion and Cadmium on Acetylcholinesterase Activity and Metallothionein Levels in the Fish Seriola dumerilli. BCM,GROINJECT; 2006; 32, 93-98.   
Rec #: 1030  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 118135  
Chemical of Concern: CdCl,MLN

109. Johansen, C. A.; Mayer, D. F.; Eves, J. D., and Kious, C. W. Pesticides and Bees. BEH,MOR,POPSOIL,ENV,MIXTURE,ORAL; 1983; 12, (5): 1513-1518.   
Rec #: 1610  
Call Number: LITE EVAL CODED (FTTCl,Naled), NO CONTROL (ACP,AZ,CBF,CBL,CPY,CYP,Captan,DCF,DCTP,DFZ,DMT,DS,DZ,ES,FNV,FVL,MDT,MLN,MOM,MP,MTM,MVP,OML,OXD,PFF,PIRE,PIRM,PMR,PPG,PPX,PSM,TCF,TDC,TEPP,TMP,TVP), NO EFFECT (Captan)  
Notes: EcoReference No.: 37328  
Chemical of Concern: ACP,AND,AZ,CBF,CBL,CPY,CYP,Captan,DCF,DCTP,DDT,DEM,DFZ,DMT,DS,DZ,EN,EPRN,ES,ETN,FNTH,FNV,FTTCl,FVL,IFP,MDT,MLN,MOM,MP,MTM,MVP,MXC,Naled,OML,OXD,PFF,PHSL,PIM,PIRE,PIRM,PMR,PPG,PPHD,PPX,PRN,PSM,TCF,TDC,TEPP,TMP,TVP,TXP

110. Johnston, G.; Walker, C. H., and Dawson, A. Interactive Effects Between EBI Fungicides (Prochloraz, Propiconazole and Penconazole) and OP Insecticides (Dimethoate, Chlorpyrifos, Diazinon and Malathion) in the Hybrid Red-Legged Partridge. BCM. G.Johnston, Sch. Anim. Microb. Sci., Univ. Reading, Reading, RG6 2AJ, UK//: MIXTURE,ORAL; 1994; 13, (4): 615-620.   
Rec #: 1330  
Call Number: NO ENDPOINT (CPY,Conazoles,DMT,DZ,MLN,PCZ,PPCP,PPCP2011), NO MIXTURE (CPY,Conazoles,DMT,DZ,MLN,PCZ,PPCP,PPCP2011)  
Notes: EcoReference No.: 67235  
Chemical of Concern: CPY,DMT,DZ,MLN,PCZ,PPCP,PPCP2011

111. ---. Interactive Effects of Prochloraz and Malathion in Pigeon, Starling and Hybrid Red-Legged Partridge. BCM,GROORAL; 1994; 13, (1): 115-120.   
Rec #: 1350  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 90780  
Chemical of Concern: MLN

112. Johnston, G.; Walker, C. H.; Dawson, A., and Furnell, A. Interactive Effects of Pesticides in the Hybrid Red-Legged Partridge. BCM,MORINJECT,MIXTURE,ORAL; 1990; 4, 309-314.   
Rec #: 1340  
Call Number: NO CONTROL (CPY,DMT), NO ENDPOINT (CPY,DMT), NO IN VITRO (MLO), LITE EVAL CODED (CBL,MLN)  
Notes: EcoReference No.: 69372  
Chemical of Concern: CBL,CPY,DMT,MLN,MLO

113. Jokanovic, M. and Maksimovic, M. A Comparison of Trimedoxime, Obidoxime, Pralidoxime and HI-6 in the Treatment of Oral Organophosphorus Insecticide Poisoning in the Rat. MORINJECT,MIXTURE,ORAL; 1995; 70, (2): 119-123.   
Rec #: 510  
Call Number: NO CONTROL (AZ,CPY,DDVP,DMT,DZ,FNT,MLN,OMT,PIRM,PRT,PSM,TBO,TCF)  
Notes: EcoReference No.: 74883  
Chemical of Concern: AZ,CPY,DDVP,DEM,DMT,DZ,EPRN,FNT,FNTH,MLN,OMT,PHSL,PIRM,PPCP,PPHD,PRN,PRT,PSM,TBO,TCF

114. Jones, K. H.; Sanderson, D. M., and Noakes, D. N. Acute Toxicity Data for Pesticides (1968). MORORAL,TOP; 1968; 7, (3): 135-143.   
Rec #: 570  
Call Number: NO CONTROL (24D,24DXY,ACL,ADC,ATN,ATZ,AZ,BMC,BS,BTY,CBL,CMPH,CPP,CPY,CQTC,Captan,Cu,CuFRA,DCNA,DCPA,DDVP,DMB,DMT,DOD,DQTBr,DS,DU,DZ,DZM,EP,EPTC,ES,FNT,Folpet,LNR,MCB,MCPB,MCPP1,MDT,MLH,MLN,MLT,MTM,MVP,Maneb,Naled,PCP,PHMD,PMT,PPN,PPX,PPZ,PQT,PRO,PRT,PYZ,RTN,SFT,SID,SZ,TCF,TFN,THM)  
Notes: EcoReference No.: 70074  
Chemical of Concern: 24D,24DXY,ABT,ACL,ADC,AMTL,AMTR,AND,ASM,ATN,ATZ,AZ,BFL,BMC,BMN,BS,BTY,CBL,CCA,CHD,CMPH,CPP,CPY,CQTC,CTHM,Captan,Cu,CuFRA,DBN,DCNA,DCPA,DDD,DDT,DDVP,DEM,DINO,DLD,DMB,DMT,DOD,DPP,DQTBr,DS,DU,DZ,DZM,EDT,EN,EP,EPRN,EPTC,ES,ETN,FLAC,FMU,FNF,FNT,FNTH,Folpet,HCCH,HPT,LNR,MCB,MCPA,MCPB,MCPP1,MDT,MLH,MLN,MLT,MRX,MTM,MVP,MXC,Maneb,NPM,Naled,PCH,PCL,PCP,PEB,PHMD,PHSL,PMT,PPCP,PPHD,PPN,PPX,PPZ,PQT,PRN,PRO,PRT,PYN,PYZ,RTN,SFT,SID,SZ,TCF,TFN,THM,TRB,TRL,TXP,VNT,Zineb

115. Kalra, V. K.; Sharma, S. S.; Chauhan, R., and Bhanot, J. P. Shift in the Level of Resistance Together with Relative Toxicity of Some Commonly Used and Important Insecticides to Diamond Back Moth, Plutella xylostella (L.) in Haryana, India. MOR. Department of Entomology, C.C.S. Haryana Agricultural University, Hisar-125 004, Haryana, India//: ENV; 1997; 21, (4): 351-354.   
Rec #: 200  
Call Number: NO CONTROL (CPY,CYP,DDVP,DM,ES,FNV,FVL,MLN), PESTS (CPY,ES,FNV,FVL), TARGET2012 (CYP,DDVP,DM)  
Notes: EcoReference No.: 159520  
Chemical of Concern: ACYP,CPY,CYP,DDVP,DM,ES,FNV,FVL,MLN

116. Kashiwada, S.; Mochida, K.; Ozoe, Y., and Nakamura, T. Contribution of Zooplankton to Disappearance of Organophosphorus Insecticides in Environmental Water. ACC,MORAQUA; 1995; 20, (4): 503-512.   
Rec #: 830  
Call Number: NO CONTROL (DZ,FNT,MLN)  
Notes: EcoReference No.: 90667  
Chemical of Concern: DZ,FNT,MLN

117. Kaspar, M.; Grondona, M.; Leon, A., and Zambelli, A. Selection of a Sunflower Line with Multiple Herbicide Tolerance that is Reversed by the P450 Inhibitor Malathion. GROSOIL,ENV,MIXTURE; 2011; 59, (2): 232-237.   
Rec #: 2310  
Call Number: NO ENDPOINT (MLN), WEEDS (ATZ)  
Notes: EcoReference No.: 158667  
Chemical of Concern: ATZ,IZX,MLN,PSF

118. Kesavaraju, B.; Afify, A., and Gaugler, R. Strain Specific Differences in Intraspecific Competition in Aedes albopictus (Diptera: Culicidae). MOR,REPAQUA; 2012; 49, (5): 988-992.   
Rec #: 2770  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162478  
Chemical of Concern: MLN

119. Kesavaraju, B.; Alto, B.; Afify, A., and Gaugler, R. Malathion Influences Competition Between Aedes albopictus and Aedes japonicus. MOR,REPAQUA; 2010; 47, (6): 1011-1018.   
Rec #: 2280  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162412  
Chemical of Concern: MLN

120. Khan, H. A.; Tantia, M. S., and Saha, J. N. Micronucleus Test (MNT) of Peripheral Blood Cells of an Indian Major Carp, Labeo rohita (Ham.) Treated with Zinc Oxide, Cobalt Nitrate, Malathion, Nuvan and Endosulfan. CELINJECT; 1991: 66-68.   
Rec #: 1460  
Call Number: LITE EVAL CODED (DDVP,ES,ZnO), NO EXP TYPE (DDVP,ES,MLN,ZnO)  
Notes: EcoReference No.: 89312  
Chemical of Concern: DDVP,ES,MLN,ZnO

121. Khan, M. A. Further Investigations on Repellency of Chemical Compounds to Stored Product Insect Pests. BEH. Stored Prod. Prot. Inst.,Fed. Biol. Res. Cent. Agric. For.,Berlin,Fed. Rep. Ger////: ENV; 1983; 70, (3): 369-381.   
Rec #: 210  
Call Number: NO ENDPOINT (BZO,MLN,PMR,PPB,RTN,TMT), TARGET2012 (BZO,RTN,TMT)  
Notes: EcoReference No.: 154930  
Chemical of Concern: BZO,DEET,DTM,HCCH,MLN,PHTH,PMR,PPB,PPCP,PYN,RTN,TMT

122. Khera, K. S. and Lyon, D. A. Chick and Duck Embryos in the Evaluation of Pesticide Toxicity. MORINJECT; 1968; 13, (1): 1-15.   
Rec #: 730  
Call Number: LITE EVAL CODED (CBL,DDVP,DZ), NO EXP TYPE (CBL,DDVP,DMT,DZ,MCB,MLN,MVP,PPX)  
Notes: EcoReference No.: 85496  
Chemical of Concern: CBL,DDVP,DMT,DZ,EPRN,ETN,MCB,MLN,MVP,PPX,PRN

123. Kimbrough, R. D. and Gaines, T. B. Effect of Organic Phosphorus Compounds and Alkylating Agents on the Rat Fetus. GRO,MOR,REPINJECT; 1968; 16, 805-808.   
Rec #: 990  
Call Number: NO EXP TYPE (DDVP,DZ,MLN)  
Notes: EcoReference No.: 110722  
Chemical of Concern: DDVP,DZ,EPRN,MLN,PRN

124. Kislow, C. J.; Jones, A. S., and Hastings, F. L. Screening Modern Insecticides for Control of Black Turpentine Beetles and IPS Species. MOR,POPENV,TOP; 1979; 6, 65-68.   
Rec #: 220  
Call Number: NO CONC (CBL,CPYM,MLN,PIRE,PIRM,PMR,PSM), NO ENDPOINT (CPY,FNT), TARGET2012 (CBL,FNT,PIRE,PIRM)  
Notes: EcoReference No.: 162216  
Chemical of Concern: CBL,CPY,CPYM,FNT,HCCH,MLN,PIRE,PIRM,PMR,PPCP,PSM

125. Kitamura, S.; Suzuki, T.; Ohta, S., and Fujimoto, N. Antiandrogenic Activity and Metabolism of the Organophosphorus Pesticide Fenthion and Related Compounds. GROINJECT; 2003; 111, (4): 503-508.   
Rec #: 230  
Call Number: NO ENDPOINT (FNT,MLN,TCF), NO EXP TYPE (FNT,MLN,TCF), NO IN VITRO (MLN,TCF), NO MIXTURE (FNT)  
Notes: EcoReference No.: 156505  
Chemical of Concern: ANTU,FNT,FNTH,MLN,PPCP,TCF,XAN

126. Klos, E. J.; Howitt, A. J., and Pshea, A. The Control of Diseases and Insects Attacking Apples and Cherries Using Ultra Low Volume Ground Sprayer in Seasonal Programs. POPENV,MIXTURE; 1966; 49, (2): 229-236.   
Rec #: 240  
Call Number: NO ENDPOINT (DOD,MLN,PSM)  
Notes: EcoReference No.: 162376  
Chemical of Concern: DOD,MLN,PHSL,PSM

127. Kundu, C. R. Sublethal Toxicity of Malathion 50 EC on Histopathology of Liver of Anuran Fejervarya limnocharis. CELAQUA; 2009; 19, (4): 367-373.   
Rec #: 2660  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162403  
Chemical of Concern: MLN

128. Kundu, C. R.; Roychoudhury, S., and Capcarova, M. Malathion-Induced Sublethal Toxicity on the Intestine of Cricket Frog (Fejervarya limnocharis). CEL,MOR. Department of Zoology, G. C. College, Silchar, India.//: AQUA; 2011; 46, (8): 691-696.   
Rec #: 2630  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162445  
Chemical of Concern: MLN

129. LaBrecque, G. C.; Wilson, H. G., and Gahan, J. B. Residual Effectiveness of Some Insecticides Against Adult House Flies. MORENV; 1965: 11 p.   
Rec #: 1720  
Call Number: NO CONTROL (CBL,DCTP,DMT,DZ,ES,MLN,PSM,TBTO,Ziram), TARGET2012 (CBL,DCTP,DMT,DZ,ES,PSM)  
Notes: EcoReference No.: 93929  
Chemical of Concern: CBL,DCTP,DMT,DZ,ES,ETN,MLN,PPHD,PSM,TBTA,TBTO,Ziram

130. Lahav, M.; Shilo, M., and Sarig, S. Development of Resistance to Lindane in Argulus Populations of Fish Ponds. MORAQUA; 1962; 14, (4): 67-76.   
Rec #: 250  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 161926  
Chemical of Concern: EN,HCCH,MLN,PPCP

131. Laley, B. O. and Gibson, M. A. Association of Hypoglycemia and Pancreatic Islet Tissue with Micromelia in Malathion-Treated Chick Embryos. BCM,CEL,GROINJECT; 1977; 55, (2): 261-264.   
Rec #: 2500  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162502  
Chemical of Concern: MLN

132. Lampert, E. P. and Stephenson, A. S. Control of Tobacco Budworms with Foliar Insecticides, 1986. MOR,PHY,POPSOIL,ENV,MIXTURE; 1987; 12, 296-(351).   
Rec #: 870  
Call Number: LITE EVAL CODED (LCYT), NO MIXTURE (FPP,MLN), OK (ACP,TDC), TARGET2012 (CBL)  
Notes: EcoReference No.: 88703  
Chemical of Concern: ACP,CBL,FPP,LCYT,MLN,TDC

133. Lentz, G. L. Comparative and Residual Effectiveness of New Insecticides for Control of Boll Weevil. MORENV,MIXTURE; 1988; 145, 16-18.   
Rec #: 260  
Call Number: NO CONTROL (AZ,CYF,CYP,FNV,MLN,MP,OML,PMR,PSM,TAUF), NO ENDPOINT (AZ,CYF,CYP,FNV,MLN,MP,OML,PMR,PSM,TAUF), PESTS (FNV,PMR,PSM,TAUF), TARGET2012 (AZ,CYF,CYP,MP,OML)  
Notes: EcoReference No.: 162061  
Chemical of Concern: AZ,CYF,CYP,FNV,FYT,MLN,MP,OML,PMR,PSM,TAUF

134. Letouze, A. and Gasquez, J. Enhanced Activity of Several Herbicide-Degrading Enzymes: A Suggested Mechanism Responsible for Multiple Resistance in Blackgrass (Alopecurus myosuroides Huds.). BCM,GRO,PHYSOIL,ENV,MIXTURE; 2003; 23, (7): 601-608.   
Rec #: 1100  
Call Number: NO MIXTURE (MLN,PPB), WEEDS (FNPP)  
Notes: EcoReference No.: 89151  
Chemical of Concern: CLFP,FNPP,MLN,PPB

135. ---. Inheritance of Fenoxaprop-P-Ethyl Resistance in a Blackgrass (Alopecurus myosuroides Huds.) Population. GRO,MORSOIL,ENV,MIXTURE; 2001; 103, (2/3): 288-296.   
Rec #: 1250  
Call Number: NO ENDPOINT (FNPP,FNPPE,MLN,PPB), WEEDS (FNPP,FNPPE)  
Notes: EcoReference No.: 94535  
Chemical of Concern: FNPP,FNPPE,MLN,PPB

136. Levin, M. D.; Forsyth, W. B.; Fairbrother, G. L., and Skinner, F. B. Impact on Colonies of Honey Bees of Ultra-Low-Volume (Undiluted) Malathion Applied for Control of Grasshoppers. ACC,POP. 2905//: SOIL,ENV; 1968; 61, (1): 58-62.   
Rec #: 1190  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 63673  
Chemical of Concern: MLN

137. Liburd, O. E.; Finn, E. M.; Pettit, K. L., and Wise, J. C. Response of Blueberry Maggot Fly (Diptera: Tephritidae) to Imidacloprid-Treated Spheres and Selected Insecticides. BEH,MOR,PHY,POPSOIL,ENV; 2003; 135, (3): 427-438.   
Rec #: 1750  
Call Number: LITE EVAL CODED (AZ,IMC,NNCT), NO MIXTURE (MLN,PSM), OK (AZD)  
Notes: EcoReference No.: 95497  
Chemical of Concern: AZ,AZD,IMC,KLN,MLN,PSM,SS,TAP,TMX

138. Lockridge, O.; Duysen, E. G.; Voelker, T.; Thompson, C. M., and Schopfer, L. M. Life Without Acetylcholinesterase: The Implications of Cholinesterase Inhibitor Toxicity in AChE-Knockout Mice. BCM,MOR,PHYINJECT; 2005; 19, (3): 463-469.   
Rec #: 1390  
Call Number: LITE EVAL CODED (CPYO), NO EXP TYPE (CPYO,DDVP,DZ,MLO), NO IN VITRO (DDVP,MLO)  
Notes: EcoReference No.: 89554  
Chemical of Concern: CPYO,DDVP,DZ,MLO

139. Lomte, V. S. and Alam, S. M. Temperature Dependent Toxicity of Malathion to the Freshwater Gastropod Viviparus bengalensis. MORAQUA; 1985; 12, (6): 251-253.   
Rec #: 1850  
Call Number: NO CONTROL (MLN)  
Notes: EcoReference No.: 2331  
Chemical of Concern: MLN

140. Lyon, R. L.; Brown, S. J., and Robertson, J. L. Contact Toxicity of Sixteen Insecticides Applied to Forest Tent Caterpillars Reared on Artificial Diet. MORTOP; 1972; 65, (3): 928-930.   
Rec #: 800  
Call Number: NO CONTROL (CBL,CPY,FNT,MLN,MOM,Naled,TCF,TMT), PESTS (CPY,MOM), TARGET2012 (CBL,FNT,Naled,TCF,TMT)  
Notes: EcoReference No.: 112783  
Chemical of Concern: CBL,CPY,DDT,FNT,FNTH,MLN,MOM,Naled,PYN,TCF,TMT

141. Madhumathi, T. and Subbaratnam, G. V. Determination of Cross- Resistance and Multiple Resistance in Cryptolestes ferrugineus (Stephens). MOR. Department of Entomology,Agricultural College,Bapatla,India//: ENV,MIXTURE; 2007; 19, (1): 63-66.   
Rec #: 2070  
Call Number: NO CONTROL (CBL,DDVP,DM,ES,FNT,MLN,PFF,PPB), NO MIXTURE (PPB), TARGET2012 (CBL,DDVP,DM,FNT,PFF)  
Notes: EcoReference No.: 150638  
Chemical of Concern: CBL,DDVP,DM,ES,FNT,MLN,PFF,PPB

142. Magar, R. S.; Harkal, A. B.; Afsar, S. K., and Mali, R. P. Effect of Malathion on the Haematological Parameters of Channa punctatus. BCM,CEL. Department of Zoology, Yeshwant Mahavidyalaya, Nanded (M.S.), India//: AQUA; 2010; 5, (1): 87-88.   
Rec #: 2230  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 161905  
Chemical of Concern: MLN

143. Magar, R. S. and Waghmare, V. N. Impact of Malathion on Biochemical Parameters of Clarius batrachus. BCM,MOR. Department of Zoology, Yeshwant Mahavidyalaya, Nanded 431 602, Maharashtra, India//: AQUA; 2010; 27, (1): 59-62.   
Rec #: 2460  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162416  
Chemical of Concern: MLN

144. Mane, U. H.; Akarte, S. R., and Kulkarni, D. A. Acute Toxicity of Fenthion to Freshwater Lamellibranch Mollusc, Indonaia caeruleus (Prashad 1918), From Godavari River at Paithan - A Biological Approach. BCMAQUA; 1986; 37, (4): 622-628 (OECDG Data File).   
Rec #: 590  
Call Number: NO CONTROL (MLN), NO ENDPOINT (MLN)  
Notes: EcoReference No.: 11971  
Chemical of Concern: FNTH,MLN

145. Mani, V. G. T. and Konar, S. K. Acute Toxicity of Some Pesticides to Fish, Plankton and Worm. MORAQUA,MIXTURE; 1986; 4, (1): 121-123.   
Rec #: 620  
Call Number: LITE EVAL CODED (CPY), NO MIXTURE (MLN)  
Notes: EcoReference No.: 303  
Chemical of Concern: CHD,CPY,MLN

146. Manna, G. K. and Mukherjee, P. K. A Study of the Genotoxic Potentiality of the Inorganic Weedicide, Sodium Arsenite in the Experimentally Treated Tilapia Fish. BCM,CELAQUA; 1989; 1, (2): 147-159.   
Rec #: 520  
Call Number: NO ENDPOINT (As,DZ,MLN)  
Notes: EcoReference No.: 7208  
Chemical of Concern: As,AsO3Na,DZ,MLN

147. Maris, A. F.; Franco, J. L.; Mitozo, P. A.; Paviani, G.; Borowski, C.; Trevisan, R.; Uliano-Silva, M.; Farina, M., and Dafre, A. L. Gender Effects of Acute Malathion or Zinc Exposure on the Antioxidant Response of Rat Hippocampus and Cerebral Cortex. BCM. Molecular Biology and Bioinformatics Laboratory, Biological and Health Sciences Area, University West of Santa Catarina, Joacaba, SC, Brazil//: INJECT; 2010; 107, (6): 965-970.   
Rec #: 2430  
Call Number: NO EXP TYPE (MLN,ZnCl2)  
Notes: EcoReference No.: 162503  
Chemical of Concern: MLN,ZnCl2

148. Matin, M. A.; Sattar, S., and Husain, K. Modification of Malathion Induced Neurochemical Changes by Adrenalectomy in Rats. BCMINJECT; 1990; 13, 119-128.   
Rec #: 2520  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162518  
Chemical of Concern: MLN

149. Matin, M. A. and Siddiqui, R. A. Effect of Diacetylmonoxime and Atropine on Malathion-Induced Changes in Blood Glucose Level and Glycogen Content of Certain Brain Structures of Rats. BCMINJECT; 1982; 31, (9): 1801-1803.   
Rec #: 970  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 89052  
Chemical of Concern: MLN

150. Matsushita, T.; Aoyama, K.; Yoshimi, K.; Fujita, Y., and Ueda, A. Allergic Contact Dermatitis from Organophosphorus Insecticides. PHYTOP; 1985; 23, (2): 145-153.   
Rec #: 650  
Call Number: NO CONTROL (DDVP,DZ,FNT,MDT,MLN,Naled), NO ENDPOINT (DDVP,DZ,FNT,MDT,MLN,Naled)  
Notes: EcoReference No.: 91369  
Chemical of Concern: DDVP,DZ,FNT,MDT,MLN,Naled

151. Maul, J. D. and Farris, J. L. Monitoring Exposure of Passerines to Acephate, Dicrotophos, and Malathion Using Cholinesterase Reactivation. BCMENV; 2004; 73, 682-689.   
Rec #: 2350  
Call Number: NO ENDPOINT (ACP,DCTP,MLN), NO MIXTURE (DCTP)  
Notes: EcoReference No.: 156165  
Chemical of Concern: ACP,DCTP,MLN

152. Mayer, F. L. Jr. Acute Toxicity Handbook of Chemicals to Estuarine Organisms. GRO,MOR,PHY,POPAQUA; 1987: 274 p. (Publ in part as 3644,5604,11070,11427,11709,11868,14574,15259,15639,56755).   
Rec #: 580  
Call Number: LITE EVAL CODED (CPY,DMT), NO PUBL AS (DZ,EP,MLN,PSM), OK (24D,24DXY,24DXYBEE,ACL,ACP,ADC,ALSV,ATM,ATZ,AZ,AgN,BMC,BS,CAP,CBF,CBL,CMPH,CST,CTN,CYP,Captan,DCF,DCPA,DCTP,DDVP,DFZ,DMB,DQTBr,DS,DU,EPTC,ES,FMP,FNT,FNV,MCB,MDT,MLT,MP,MTAS,MVP,Maneb,NaPCP,Naled,PCBZ,PCP,PMR,PMT,PPX,PQT,PRO,PRT,RTN,SFR,SZ,TBC,TBF,TBTO,TCF,TDC,TFN,TMP,Ziram,ZnS)  
Notes: EcoReference No.: 3947  
Chemical of Concern: 24D,24DC,24DXY,24DXYBEE,ACD,ACL,ACP,ADC,ALSV,AMTR,AND,ANZ,ATM,ATZ,AZ,AgN,AsTO,BMC,BS,CAP,CBF,CBL,CCA,CHD,CMPH,CPY,CST,CTN,CYP,Captan,CdCl,DBN,DCF,DCPA,DCTP,DDE,DDT,DDVP,DEM,DFZ,DLD,DMB,DMT,DQTBr,DS,DSMA,DU,DZ,EDT,EN,EP,EPRN,EPTC,ES,ETN,FBM,FMP,FNF,FNT,FNTH,FNV,HCB,HCCH,HCCP,HMN,HPT,HgCl2,K2Cr2O7,MCB,MDT,MLN,MLT,MP,MRX,MTAS,MVP,MXC,Maneb,NTP,NaHCT,NaLS,NaPCP,Naled,PCBZ,PCP,PEB,PHTH,PL,PMR,PMT,PPCP,PPHD,PPX,PQT,PRN,PRO,PRT,PSM,RTN,SFR,SZ,TBC,TBF,TBTO,TCF,TDC,TEG,TFN,TMP,TPTH,TRL,VNT,Zineb,Ziram,ZnS

153. ---. Pesticides as Pollutants. ACC,GRO,MOR,REPAQUA,Unspecified; 1974: 405-418 (Publ in Part As 6797).   
Rec #: 1620  
Call Number: LITE EVAL CODED (13DPE,24DXYBEE,ACL,ARM,ATM,ATN,ATZ,AZ,As,CAP,CBL,CPY,Captan,CuS,DCF,DD,DMB,DPDP,DQT,DQTBr,DU,DZ,ES,MLH,MVP,Naled,PPB,PPG,PQT,RTN,SZ,TBTO,TCF,TFN,TMP), NO CONTROL (13DPE,24DXYBEE,ACL,ARM,ATM,ATN,ATZ,AZ,As,CAP,CBL,CPY,Captan,CuS,DCF,DD,DMB,DPDP,DQT,DQTBr,DU,DZ,ES,MLH,MLN,MVP,Naled,PPB,PPG,PQT,RTN,SZ,TBTO,TCF,TFN,TMP)  
Notes: EcoReference No.: 70421  
Chemical of Concern: 13DPE,24DIO,24DXY,24DXYBEE,ACL,AND,ARM,ATM,ATN,ATZ,AZ,As,AsO3Na,CAP,CBL,CHD,CPY,Captan,CuS,DBN,DCF,DD,DDT,DLD,DMB,DPDP,DQT,DQTBr,DU,DZ,EDT,EN,EPRN,ES,FNTH,HCCH,HPT,MLH,MLN,MRX,MVP,MXC,Naled,PCL,PPB,PPCP,PPG,PPHD,PQT,PRN,PYN,RTN,SZ,TBT,TBTO,TCF,TFN,TMP,TPTH,TXP,VNT

154. Mayer, F. L. Jr. and Ellersieck, M. R. Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. MOR,PHYAQUA; 1986: 505 p. (USGS Data File).   
Rec #: 1440  
Call Number: LITE EVAL CODED (13DPE,24D,24DXY,24DXYBEE,ACP,ACR,ADC,ALSV,AMSV,ARM,ATM,ATN,ATZ,AZ,BMY,BPPG,BS,BTY,CAP,CBF,CBL,CMPH,CPY,CPYM,CQTC,CaPS,Captan,CuS,DBAC,DCB,DCF,DCPA,DCTP,DD,DDVP,DFZ,DMB,DMDP,DMT,DOD,DPDP,DQTBr,DS,DTATN,DU,DZ,EPTC,ES,ETHB,ETHN,FBOX,FDE,FLU,FNT,FNV,FOSNH,Folpet,GER,GYP,HXZ,IGS,LNR,MBTZ,MCB,MCPB,MDT,MLT,MOL,MOM,MP,MTAS,MTL,MTPN,MVP,NaN3,NaPCP,Naled,OML,OXD,OYZ,PAHs,PCP,PFF,PHA,PMR,PPB,PPCP,PPN,PPR,PPX,PQT,PRT,PSM,RSM,RTN,SZ,TBF,TBO,TCF,TEPP,TFN,TMP,TVP,WFN,ZnS,nBUT), NO CONTROL (13DPE,24D,24DXY,24DXYBEE,ACR,ARM,BMY,BPPG,BS,BSO,BTY,CAP,CMPH,CPY,CPYM,Captan,DCF,DCPA,DCTP,DD,DDVP,DFZ,DMDP,DPDP,DQTBr,DS,DU,EFV,EPTC,ES,ETHN,FBOX,FDE,FLU,FNT,FNV,FOSNH,Folpet,GER,GYP,HXZ,LNR,MBTZ,MCB,MDT,MLN,MOL,MP,MVP,Naled,OML,OXD,OYZ,PAHs,PEPPG,PFF,PHA,PMR,PPG,PPN,PPR,PPX,PQT,PSM,TBF,TBO,TCF,TFN,TMP,TVP,TVPM,ZnS,nBUT), OK (As,PAQT,Zn,Zn element)  
Notes: EcoReference No.: 6797  
Chemical of Concern: 13DPE,24D,24DB,24DIO,24DXY,24DXYBEE,ACP,ACR,ADC,ALSV,AMSV,AMTL,AMTR,AND,ANZ,ARM,ATM,ATN,ATZ,AZ,Al,AlN,AlS,As,AsO3Na,BBZ,BFL,BMY,BNZ,BPPG,BS,BSO,BTY,CAP,CBF,CBL,CHD,CHX,CMPH,CPY,CPYM,CQTC,CYT,CZE,CaOCl,CaPS,Captan,CuS,DBAC,DBN,DCB,DCF,DCPA,DCTP,DD,DDE,DDT,DDVP,DEET,DEM,DFPM,DFZ,DINO,DLD,DMB,DMDP,DMM,DMT,DOD,DPDP,DQTBr,DS,DTATN,DTM,DU,DZ,EDTK,EFS,EFV,EGY,EN,EPRN,EPTC,ES,ETHB,ETHN,ETN,FBOX,FDE,FLU,FMU,FNF,FNT,FNTH,FNV,FO,FOSNH,Folpet,GER,GYP,HCB,HCCH,HMN,HPT,HXZ,IGS,LNR,MBTZ,MBZ,MCB,MCPAD,MCPB,MDT,MLN,MLT,MOL,MOM,MP,MRX,MSMA,MTAS,MTL,MTPN,MVP,MXC,NAA,NTP,NaN3,NaPCP,Naled,OML,OTQ,OXD,OYZ,PAHs,PAQT,PBDE,PCB,PCH,PCL,PCP,PEB,PEPPG,PFF,PHA,PHSL,PHTH,PMR,PPB,PPCP,PPG,PPGL,PPHD,PPN,PPR,PPX,PQT,PRN,PRT,PSM,PYN,RSM,RTN,RYA,SCFNNa,SZ,Se,TBF,TBO,TCF,TEPP,TFN,TMP,TOL,TPTH,TRL,TVP,TVPM,TXP,VNT,WFN,Zn,Zn element,ZnS,nBUT

155. Midgarden, D.; Fleischer, S. J.; Weisz, R., and Smilowitz, Z. Site-Specific Integrated Pest Management Impact on Development of Esfenvalerate Resistance in Colorado Potato Beetle (Coleoptera: Chrysomelidae) and on Densities of Natural Enemies. MORENV,MIXTURE; 1997; 90, (4): 855-867.   
Rec #: 1790  
Call Number: NO EFFECT (MLN), PESTS (EFV)  
Notes: EcoReference No.: 89368  
Chemical of Concern: EFV,MLN

156. Minton, B.; Matocha, M., and Senseman, S. The Influence of Malathion on Trifloxysulfuron Absorption and Translocation in Cotton. ACC,MOR,PHYSOIL,ENV,MIXTURE; 2008; 12, (1): 48-52.   
Rec #: 2700  
Call Number: NO CONTROL (MLN)  
Notes: EcoReference No.: 162536  
Chemical of Concern: MLN

157. Mishra, A.; Dwivedi, P. P., and Dutta, K. K. Behaviour of Freshwater Air Breathing Teleost, Heteropneustes fossilis (BI.) Exposed to Different Concentrations of Malathion. BEH,MORAQUA; 1986; 1, (1): 13-16.   
Rec #: 690  
Call Number: NO CONTROL (MLN)  
Notes: EcoReference No.: 12421  
Chemical of Concern: MLN

158. Mohamad, B. M. and Van Emden, H. F. Host Plant Modification to Insecticide Susceptibility in Myzus persicae (Sulz.). MOR,POPTOP; 1989; 10, (5): 699-703.   
Rec #: 1170  
Call Number: NO CONTROL (MLN)  
Notes: EcoReference No.: 91029  
Chemical of Concern: MLN

159. Mohammadi, H.; Karimi, G.; Rezayat, S. M.; Dehpour, A. R.; Shafiee, H.; Nikfar, S.; Baeeri, M.; Sabzevari, O., and Abdollahi, M. Benefit of Nanocarrier of Magnetic Magnesium in Rat Malathion-Induced Toxicity and Cardiac Failure Using Non-invasive Monitoring of Electrocardiogram and Blood Pressure. BCM,CEL,MOR,PHY. Faculty of Pharmacy, Pharmaceutical Sciences Research Center, Tehran University of Medical Sciences, Tehran, Iran, Medical Toxicology Research Center, Faculty of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran, mohammad.abdollahi@utoronto.ca//: INJECT,MIXTURE; 2011; 27, (5): 417-429.   
Rec #: 2620  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162535  
Chemical of Concern: 1Major ions,MLN,MgSO4,MgSO4s

160. Moore, P. D.; Patlolla, A. K., and Tchounwou, P. B. Cytogenetic Evaluation of Malathion-Induced Toxicity in Sprague-Dawley Rats. CELINJECT; 2011; 725, (1/2): 78-82.   
Rec #: 2610  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162486  
Chemical of Concern: MLN

161. Morishita, M. Toxicity of Some Insecticides to Larvae of Flankliniella occidentalis (Pergande) (Thysanoptera: Thripidae) Evaluated by the Petri Dish-Spraying Tower Method. MORENV; 2001; 36, (1): 137-141.   
Rec #: 1990  
Call Number: NO ENDPOINT (BFT,CBL,CPYM,CYP,DFZ,DMT,DZ,EFX,ES,FNT,FPP,FVL,IMC,MDT,MLN,NNCT,PIRM,PMR,PRB,TCF,TDC), TARGET2012 (ACP,BFT,CBL,CPY,CPYM,CYP,DDVP,DFZ,DMT,DZ,EFX,ES,FNT,FPP,FVL,IMC,MDT,MOM,NNCT,PFF,PIRM,PMR,PRB,TCF,TDC)  
Notes: EcoReference No.: 82021  
Chemical of Concern: ACP,ACT,BFT,CBL,CPY,CPYM,CYP,DDVP,DFZ,DMT,DZ,EFX,EMMB,ES,FNT,FNTH,FPP,FVL,IMC,LUF,MDT,MLN,MOM,PFF,PHSL,PIM,PIRM,PMR,PRB,SPS,SS,TCF,TDC

162. Mostafa, A. A. and Allam, K. A. M. Studies on the Present Status of Insecticides Resistance on Mosquitoes Using the Diagnostic Dosages in El-Fayium Governorate, a Spot Area of Malaria in Egypt. MORAQUA,ENV; 2001; 31, (1): 177-186.   
Rec #: 1810  
Call Number: NO CONTROL (CYP,DM,DZ,FNT,MLN,PMR,TMP)  
Notes: EcoReference No.: 100283  
Chemical of Concern: CYP,DM,DZ,FNT,FNTH,MLN,PMR,TMP

163. Mulrooney, J. E.; Holmes, K. A.; Shaw, R. A., and Goli, D. Longevity of Ultra-Low-Volume Sprays of Fipronil and Malathion on Cotton in Mexico. ACCSOIL,ENV; 2003; 28, (1): 69-75.   
Rec #: 1400  
Call Number: NO CONTROL (FPN,MLN)  
Notes: EcoReference No.: 89080  
Chemical of Concern: FPN,MLN

164. Muniappan, R. and Marutani, M. Pest Management for Head Cabbage Production on Guam. POPENV; 1992; 60, 541-549.   
Rec #: 270  
Call Number: NO ENDPOINT (DZ,FNV), NO PUBL AS (CBL,MLN,MOM,Naled,OML), PESTS (FNV,MOM), TARGET2012 (CBL,DZ,Naled,OML)  
Notes: EcoReference No.: 154609  
Chemical of Concern: CBL,DZ,FNV,MLN,MOM,Naled,OML

165. Murray, A.; Rathbone, A. J., and Ray, D. E. Novel Protein Targets for Organophosphorus Pesticides in Rat Brain. BCMORAL; 2005; 19, (3): 451-454.   
Rec #: 1490  
Call Number: NO ENDPOINT (CPYO,DZ,MLN,PIRM), NO IN VITRO (CPYO,DZ,MLN)  
Notes: EcoReference No.: 89041  
Chemical of Concern: AZM,CPYO,DZ,MLN,PIRM

166. Muturi, E. J.; Costanzo, K.; Kesavaraju, B.; Lampman, R., and Alto, B. W. Interaction of a Pesticide and Larval Competition on Life History Traits of Culex pipiens. MOR,REP. Illinois Natural History Survey, University of Illinois, Champaign, IL 61820, USA. ephajumu@yahoo.com//: AQUA; 2010; 116, (2): 141-146.   
Rec #: 2690  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162483  
Chemical of Concern: MLN

167. Nelson, S. M. and Roline, R. A. Comparison of Rapid Toxicity Tests with a Standard Acute Test. BCM,MORAQUA; 1997: 12 p. (NTIS #PB97-158919).   
Rec #: 790  
Call Number: LITE EVAL CODED (24D,24DXY,ZnCl2), NO CONTROL (24D,24DXY,CuS,MLN,ZnCl2)  
Notes: EcoReference No.: 104626  
Chemical of Concern: 24D,24DXY,CdN,CuS,EDTK,MLN,ZnCl2

168. Nielson, R. L. Stem Weevil Control. POPENV; 1966; 19, 177-179.   
Rec #: 280  
Call Number: NO ENDPOINT (DDVP,DZ,FNT,MDT,MLN,MP,PRT,PSM), TARGET2012 (DDVP,DZ,FNT,MDT,MP)  
Notes: EcoReference No.: 162312  
Chemical of Concern: DDVP,DZ,FNT,FNTH,MDT,MLN,MP,PRT,PSM

169. Nigam, P. C. Summary of Contact, Stomach and Residual Toxicity of Insecticides Against Forest Insect Pests During 1974. MORENV; 1975: 10 p.   
Rec #: 300  
Call Number: NO CONTROL (ACP,ATN,CBL,CPY,CPYM,DMT,FNT,MDT,MLN,MOM,PPX,PSM,RSM,TCF,TVP), NO ENDPOINT (ACP,ATN,CBL,CPY,CPYM,DMT,FNT,MDT,MLN,MOM,PPX,PSM,RSM,TCF,TVP)  
Notes: EcoReference No.: 162217  
Chemical of Concern: ACP,ATN,CBL,CPY,CPYM,DDT,DMT,FNT,HCCH,MDT,MLN,MOM,PPCP,PPHD,PPX,PSM,RSM,TCF,TVP

170. ---. Summary of Laboratory Evaluations of Insecticides Against Various Species of Forest Insect Pests During 1975. MORENV,ORAL,TOP; 1975: 9 p.   
Rec #: 290  
Call Number: LITE EVAL CODED (PSM), NO ENDPOINT (ACP,DMT,DZ,MLN,PMR,RSM,TCF,TVP), OK (CPYM,FNT,FNV,MDT,MOM,PMR,RSM)  
Notes: EcoReference No.: 162363  
Chemical of Concern: ACP,CPYM,DDT,DMT,DZ,FNT,FNV,MDT,MLN,MOM,PMR,PPHD,PSM,RSM,TCF,TVP

171. Nikulina, S. S. and Sokolskaya, N. P. Influence of Some Pesticides on Ontogenesis of Carp. GRO,MOR,PHY1975; 7, 94-95(RUS).   
Rec #: 1240  
Call Number: LITE EVAL CODED (DDVP,FNT), NO CONTROL (DDVP,FNT,MLN)  
Notes: EcoReference No.: 6287  
Chemical of Concern: DDVP,FNT,MLN,PHSL

172. Nishiuchi, Y. and Asano, K. Toxicity of Agricultural Chemicals to Some Freshwater Organisms - 59. MORAQUA,Unspecified; 1979; 27, (1): 48-55(JPN) (ENG TRANSL).   
Rec #: 1940  
Call Number: LITE EVAL CODED (ACP,ACR,AMZ,ATZ,As,BMC,BMY,BT,CAP,CBL,CPP,CPY,CPYM,CTN,Captan,CuOH,CuOX,CuS,DAED,DCB,DCF,DDVP,DMDP,DMT,DQT,DS,DU,DZ,EPTC,ES,FNT,Folpet,LNR,LQN,MAL,MDT,MEM,MITC,MOM,MZB,Maneb,NaPCP,Naled,PHMD,PMT,PNB,PPG,PPN,PPX,PPZ,PQT,PSM,PYZ,PZM,QOC,RTN,SFR,SMS,SZ,TBC,TCF,TFN,TVP,Ziram), NO CONTROL (ACP,ACR,AMZ,ATZ,As,BMC,BMY,BT,CAP,CBL,CPP,CPY,CPYM,CTN,Captan,CuOH,CuOX,CuS,DAED,DCB,DCF,DDVP,DMDP,DMT,DQT,DS,DU,DZ,EPTC,ES,FNT,Folpet,LNR,LQN,MAL,MDT,MEM,MITC,MLN,MOM,MZB,Maneb,NaPCP,Naled,PHMD,PMT,PNB,PPG,PPN,PPX,PPZ,PQT,PSM,PYZ,PZM,QOC,RTN,SFR,SMS,SZ,TBC,TCF,TFN,TVP,Ziram)  
Notes: EcoReference No.: 6954  
Chemical of Concern: 24DXY,ACP,ACR,AMTL,AMZ,AND,ATZ,As,BFL,BMC,BMY,BT,BTC,CAP,CBL,CHD,CPP,CPY,CPYM,CTN,CYC,CZE,Captan,CuOH,CuOX,CuS,DAED,DBN,DCB,DCF,DDT,DDVP,DINO,DLD,DMDP,DMT,DQT,DS,DU,DZ,EPTC,ES,FBM,FLAC,FML,FNT,FNTH,FZFB,Folpet,HCCH,HPT,HYX,LNR,LQN,MAL,MCPA,MCPAK,MCPANa,MCPBNa,MDT,MEM,MITC,MLN,MOM,MZB,Maneb,NaClO,NaFS,NaPCP,Naled,ODZ,PCL,PEB,PHMD,PHSL,PMT,PNB,PPCP,PPG,PPN,PPX,PPZ,PQT,PSM,PYZ,PZM,QOC,RTN,SFR,SMS,SZ,TBA,TBC,TCF,TFN,TPE,TPM,TPN,TPTH,TVP,TZL,VNT,Zineb,Ziram

173. Nishiuchi, Y. and Hashimoto, Y. Toxicity of Pesticides to Some Fresh Water Organisms. MORAQUA; 1969; 2, 137-139.   
Rec #: 1970  
Call Number: LITE EVAL CODED (ATZ,CAP,Captan,ES,FNT,NaPCP,PPN,PPX,SZ,TCF,Ziram), NO CONTROL (ATZ,CAP,Captan,ES,FNT,MLN,NaPCP,PPN,PPX,SZ,TCF,Ziram)  
Notes: EcoReference No.: 2682  
Chemical of Concern: 24DXY,ATZ,CAP,Captan,DDT,EPRN,ES,FNT,MCPA,MLN,NaPCP,PPN,PPX,PRN,SZ,TCF,TPTH,Ziram

174. Nord, J. C. and Pepper, W. D. Rainfastness of Insecticide Deposits on Loblolly Pine Foliage and the Efficacy of Adjuvants in Preventing Washoff. MORENV,MIXTURE; 1991; 26, (2): 287-298.   
Rec #: 310  
Call Number: NO ENDPOINT (AZ,MLN,PMR,PSM), TARGET2012 (AZ,PMR,PSM)  
Notes: EcoReference No.: 162182  
Chemical of Concern: AZ,MLN,PMR,PSM

175. O'Kelley, J. C. and Deason, T. R. Degradation of Pesticides by Algae. ACC,POPAQUA; 1976: 41 p. (NTIS/PB-251933).   
Rec #: 900  
Call Number: NO ENDPOINT (24DXYBEE,ATZ,CBL,Captan,DZ,MLN)  
Notes: EcoReference No.: 7876  
Chemical of Concern: 24DXYBEE,AND,ATZ,CBL,Captan,DLD,DZ,EN,HPT,MLN,MXC,TXP

176. Oseto, C. Y. and Burr, W. F. Timing Insecticide Applications for Control of the Red Sunflower Seed Weevil (Coleoptera: Curculionidae) on Cultivated Sunflower. POPENV; 1990; 7, (4): 337-341.   
Rec #: 320  
Call Number: NO CONTROL (CBF,CPY,CYF,CYP,ES,FNV,LCYT,MLN,PMR), NO ENDPOINT (CBF,CPY,CYF,CYP,ES,FNV,LCYT,MLN,PMR)  
Notes: EcoReference No.: 121467  
Chemical of Concern: CBF,CPY,CYF,CYP,ES,FNV,FYT,LCYT,MLN,PMR

177. Owen, M. J.; Goggin, D. E., and Powles, S. B. Non-Target-Site-Based Resistance to ALS-Inhibiting Herbicides in Six Bromus rigidus Populations from Western Australian Cropping Fields. MORSOIL,ENV,MIXTURE; 2012; 68, 1077-1082.   
Rec #: 2790  
Call Number: NO EFFECT (CLT,GYP,IZP,PAQT,PQT,SXD), NO ENDPOINT (MLN), NO MIXTURE (IZP,MLN), OK (SMU)  
Notes: EcoReference No.: 162533  
Chemical of Concern: CLT,FZF,GYP,IAZ,IZP,IZX,MLN,PAQT,PQT,SFS,SMU,SXD

178. Page, L. M.; Johnson, D. R.; Maret, M. P., and Amaden, S. R. Summary of Insecticide Performance for Boll Weevil (Anthonomus grandis) Control in Arkansas Cotton. POPENV; 1999; 2, 1168-1169.   
Rec #: 330  
Call Number: NO ENDPOINT (ACP,AZ,BFT,CYF,CYP,DCTP,DM,EFV,ES,FPN,LCYT,MLN,MP,OML,PSM,TLM), PESTS (ACP,EFV,ES,PSM), TARGET2012 (AZ,BFT,CYF,CYP,DCTP,DM,FPN,LCYT,MP,OML,TLM)  
Notes: EcoReference No.: 162173  
Chemical of Concern: ACP,AZ,BFT,CYF,CYP,DCTP,DM,EFV,ES,FPN,LCYT,MLN,MP,OML,PSM,TLM

179. Page, M.; Ryan, R. B.; Rappaport, N., and Schmidt, F. Comparative Toxicity of Acephate, Diflubenzuron, and Malathion to Larvae of the Larch Casebearer, Coleophora laricella (Lepidoptera: Coleophoridae) and Adults of Its Parasites, Chrysocharis laricinellae and Dicladocerus nearcticus. MORENV; 1982; 11, (3): 730-732.   
Rec #: 780  
Call Number: NO ENDPOINT (DFZ,MLN), OK (ACP)  
Notes: EcoReference No.: 109860  
Chemical of Concern: ACP,DFZ,MLN

180. Pan, G.; Si, P.; Yu, Q.; Tu, J., and Powles, S. Non-target Site Mechanism of Metribuzin Tolerance in Induced Tolerant Mutants of Narrow-Leafed Lupin (Lupinus angustifolius L.). BCM,CEL,GRO,MORSOIL,ENV,MIXTURE; 2012; 63, 452-458.   
Rec #: 2800  
Call Number: NO MIXTURE (MLN,OMT,PRT)  
Notes: EcoReference No.: 162562  
Chemical of Concern: MBZ,MLN,OMT,PRT

181. Pandey, A. K. Bio-efficacy of Different Insecticides Against Gypsy Moth, Lymantria spp. (Lepidoptera: Lymantriidae). MORENV; 2005; 29, (2): 119-122.   
Rec #: 340  
Call Number: NO CONTROL (CPY,CYP,DM,DMT,ES,FNV,MLN,PMR)  
Notes: EcoReference No.: 121435  
Chemical of Concern: CPY,CYP,DM,DMT,ES,FNV,MLN,PMR

182. Pardo, A.; Gea, F. J.; Pardo, J., and Navarro, M. J. Organophosphorus Insecticide Residues in the Cultivated Mushroom, Agaricus bisporus (Lange) Imbach. ACCENV; 1995; 14, (2): 515-524.   
Rec #: 1540  
Call Number: NO CONTROL (DDVP,DZ,MLN,SFT), NO ENDPOINT (DDVP,DZ,MLN,SFT)  
Notes: EcoReference No.: 89596  
Chemical of Concern: DDVP,DZ,MLN,SFT

183. Paris, D. F.; Lewis, D. L.; Barnett, J. T. Jr., and Baughman, G. L. Microbial Degradation and Accumulation of Pesticides in Aquatic Systems. POPENV; 1975: 46 p.   
Rec #: 1450  
Call Number: NO CONTROL (24DXYBEE,ATZ,CBL,Captan,DZ,MLN), NO ENDPOINT (24DXYBEE,ATZ,CBL,Captan,DZ,MLN)  
Notes: EcoReference No.: 78294  
Chemical of Concern: 24DXYBEE,ATZ,CBL,Captan,DZ,EPRN,MLN,MXC,PRN,TXP

184. Park, K. H.; Kim, Y. S.; Chung, E. Y.; Choe, S. N., and Choo, J. J. Cardiac Responses of Pacific Oyster Crassostrea gigas to Agents Modulating Cholinergic Function. BCM,PHYAQUA; 2004; 139, (4): 303-308.   
Rec #: 710  
Call Number: NO ENDPOINT (DZ,MLN)  
Notes: EcoReference No.: 88997  
Chemical of Concern: DZ,EPRN,MLN,PRN

185. Pasarela, N. R.; Brown, R. G., and Shaffer, C. B. Feeding of Malathion to Cattle: Residue Analyses of Milk and Tissue. ACCORAL; 1962; 10, (1): 7-9.   
Rec #: 2110  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162504  
Chemical of Concern: MLN

186. Passarella, I.; Elia, I.; Guarino, B.; Bourlot, G., and Negre, M. Evaluation of the Field Dissipation of Fungicides and Insecticides Used on Fruit Bearing Trees in Northern Italy. ACCSOIL,TOP; 2009; 44, (2): 137-143.   
Rec #: 350  
Call Number: NO CONTROL (CPY,Captan,FNT,MLN)  
Notes: EcoReference No.: 159239  
Chemical of Concern: CPY,CYD,Captan,FDX,FNT,MLN,TEZ

187. Plautz, S. C.; Funkhouser, M. A., and Salice, C. J. New Insights into Parental Effects and Toxicity: Mate Availability and Diet in the Parental Environment Affect Offspring Responses to Contaminants. MORAQUA; 2013; 180, (0): 41-47.   
Rec #: 2550  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162549  
Chemical of Concern: CdCl,MLN

188. Plautz, S. C. and Salice, C. J. Does Social Facilitation Affect Responses to Natural and Anthropogenic Stressors in the Freshwater Snail Planorbella trivolvis? BEHAQUA; 2011; 30, (12): 2883-2887.   
Rec #: 2380  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162443  
Chemical of Concern: MLN

189. Pradhan, S.; Jotwani, M. G., and Rai, B. K. Bioassay of Insecticides. VIII. Relative Toxicity of Some Insecticides to Red Pumpkin Beetle, Aulacophora foveicollis Lucas (Coleoptera: Chrysomelidae). MORENV; 1958; 20, (2): 104-107.   
Rec #: 700  
Call Number: NO CONTROL (DZ,MLN), TARGET2012 (DZ)  
Notes: EcoReference No.: 59615  
Chemical of Concern: AND,CHD,DDT,DLD,DZ,EN,EPRN,HCCH,MLN,PPCP,PRN,PYN,TXP

190. Pree, D. J. Control of Glischrochilus quadrisignatus (Say) (Coleoptera: Nitidulidae), a Pest of Fruit and Vegetables in Southwestern Ontario. POPMIXTURE,ORAL; 1968; 99, 60-64.   
Rec #: 360  
Call Number: NO CONTROL (1Major ions,AZ,CBL,CaCl2,Captan,DZ,ES,Halides,MLN,PPX,PSM), NO ENDPOINT (1Major ions,AZ,CBL,CaCl2,Captan,DZ,ES,Halides,MLN,PPX,PSM), NO MIXTURE (1Major ions,CaCl2,Captan,Halides), TARGET2012 (AZ,CBL,DZ,PPX)  
Notes: EcoReference No.: 162066  
Chemical of Concern: 1Major ions,AND,AZ,CBL,CaCl2,CaSO4,CaSO4s,Captan,DDT,DZ,ES,FNF,Halides,MLN,PPX,PSM

191. Preston, C.; Tardif, F. J.; Christopher, J. T., and Powles, S. B. Multiple Resistance to Dissimilar Herbicide Chemistries in a Biotype of Lolium rigidum due to Enhanced Activity of Several Herbicide Degrading Enzymes. ACC,MORSOIL,ENV,MIXTURE; 1996; 54, 123-134.   
Rec #: 1480  
Call Number: LITE EVAL CODED (SZ), NO MIXTURE (MLN,PPB)  
Notes: EcoReference No.: 69605  
Chemical of Concern: CSF,DFPM,MLN,PPB,SZ,TKY

192. Puglis, H. J. and Boone, M. D. Effects of Technical-Grade Active Ingredient vs. Commercial Formulation of Seven Pesticides in the Presence or Absence of UV Radiation on Survival of Green Frog Tadpoles. MORAQUA; 2011; 60, (1): 145-155.   
Rec #: 2260  
Call Number: NO ENDPOINT (BFT,CBL,CYF,GYP,IMC,MLN,NNCT,PMR)  
Notes: EcoReference No.: 153627  
Chemical of Concern: BFT,CBL,CYF,GYP,IMC,MLN,PMR

193. Ragenovich, I. R.; Schmid, J. M.; Bennett, D. D.; Barry, J. W., and Richmond, C. E. Field Evaluations of Four Insecticides Against the Pandora Moth, 1982. POPENV; 1986; 11, 426-(563).   
Rec #: 1150  
Call Number: NO ENDPOINT (ACP,DFZ,MLN)  
Notes: EcoReference No.: 88793  
Chemical of Concern: ACP,DFZ,MLN

194. Rahman, M. D. A. and Shahjahan, M. D. Resistance of Red Flour Beetle, Tribolium castaneum (Herbst), Against Some Commonly Used Insecticides in Bangladesh. MORENV,TOP; 2000; 10, (1/2): 87-95.   
Rec #: 2050  
Call Number: NO ENDPOINT (MLN,PPHN), PESTS (PPHN), TARGET2012 (DDVP,FNT,PIRM)  
Notes: EcoReference No.: 150782  
Chemical of Concern: DDVP,FNT,MLN,PIRM,PPHN

195. Raja, I. A. and Kulkarni, K. M. Nucleic Acid and Sialic Acid Content in the Testes and Accessory Reproductive Glands of Male Mice Exposed to Thiodan and Malathion. CEL. Research Laboratory, Department of Zoology, Shri Shivaji College, Akola 444001, Maharashtra, India, rasbora\_raja@rediffmail.com//: ORAL; 2012; 30, (3b): 868-871.   
Rec #: 2580  
Call Number: NO ENDPOINT (ES,MLN)  
Notes: EcoReference No.: 162556  
Chemical of Concern: ES,MLN

196. Rajendran, S. and Narasimhan, K. S. The Current Status of Phosphine Fumigations in India. MORENV,MIXTURE; 1994: 148-152.   
Rec #: 2170  
Call Number: NO MIXTURE (DDVP,MLN), OK (PPHN), TARGET2012 (DDVP)  
Notes: EcoReference No.: 150806  
Chemical of Concern: DDVP,MLN,PPHN

197. Raju, N.; Gopalan, M., and Balasubramanian, G. Ovicidal Action of Insecticides, Moult Inhibitor and Fungicides on the Eggs of Rice Leaf Folder and Stem Borer. MORENV; 1990; 18, (1): 5-9.   
Rec #: 370  
Call Number: NO ENDPOINT (CBD,CBL,CPY,CYP,DDVP,DFZ,DM,ES,FNV,MLN,MZB,PMR,TMP)  
Notes: EcoReference No.: 121449  
Chemical of Concern: CBD,CBL,CPY,CYP,DDVP,DFZ,DM,ES,FNTH,FNV,MLN,MZB,PMR,TMP

198. Ramke, D. J.; Gillies, P. A., and Schaefer, C. H. Aedes nigromaculis Control Crisis in the Southern San Joaquin Valley. POPENV,MIXTURE; 1969; 16, (2): 19-20.   
Rec #: 640  
Call Number: NO CONTROL (CPY,DDVP,MLN,MP,Naled,PPX,TMP), NO ENDPOINT (CPY,DDVP,MLN,MP,Naled,PPX,TMP)  
Notes: EcoReference No.: 67299  
Chemical of Concern: CPY,DDVP,EPRN,FNTH,MLN,MP,Naled,PPX,PRN,TMP

199. Ramsdale, C. D.; Herath, P. R. J., and Davidson, G. Recent Developments of Insecticide Resistance in Some Turkish Anophelines. MORAQUA; 1980; 83, (1): 11-19.   
Rec #: 1700  
Call Number: NO CONTROL (CBL,CPY,DMT,DZ,FNT,MLN,PIRM,PPX,TMP), NO ENDPOINT (CBL,CPY,DMT,DZ,FNT,MLN,PIRM,PPX,TMP)  
Notes: EcoReference No.: 103945  
Chemical of Concern: CBL,CPY,DMT,DZ,EPRN,FNT,FNTH,MLN,PIRM,PPX,PRN,TMP

200. Ramu, A. and Drexler, H. Hyperglycemia in Acute Malathion Intoxication in Rats. BCM,PHYINJECT,MIXTURE; 1973; 9, (5): 635-639.   
Rec #: 2510  
Call Number: NO ENDPOINT (AMSV,MLN), NO EXP TYPE (AMSV,MLN)  
Notes: EcoReference No.: 162510  
Chemical of Concern: AMSV,MLN

201. Ramzan, M.; Chawla, R. P., and Chahal, B. S. Efficacy of Pre-Harvest Application of Some Insecticides on Wheat for Post-Harvest Protection Against Storage-Pests. MOR,POPENV; 1986; 20, (7): 50-51.   
Rec #: 380  
Call Number: NO ENDPOINT (CYP,DM,FNV,MLN,PMR)  
Notes: EcoReference No.: 154872  
Chemical of Concern: CYP,DM,FNV,FYT,MLN,PMR

202. Ranjbar, A.; Ghahremani, M. H.; Sharifzadeh, M.; Golestani, A.; Ghazi-Khansari, M.; Baeeri, M., and Abdollahi, M. Protection by Pentoxifylline of Malathion-Induced Toxic Stress and Mitochondrial Damage in Rat Brain. BCM,CELINJECT,MIXTURE; 2010; 29, (10): 851-864.   
Rec #: 2250  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 156292  
Chemical of Concern: MLN

203. Ranke-Rybicka, B. Badabua Bad Przezywalnoscia Kijanek Rana temporaria L. Poddawanych Okresowemu Dzialaniu Pestycydow Fosforoorganicznych (Foschlor, Malation). GRO,MOR1972; 23, (3): 371-377(POL) (ENG ABS).   
Rec #: 680  
Call Number: NO CONTROL (MLN,TCF), NO ENDPOINT (MLN)  
Notes: EcoReference No.: 9176  
Chemical of Concern: MLN,TCF

204. Rawash, I. A.; El-Gayar, F. M.; Gaaboub, I. A., and El-Shazli, A. Y. Residue Analysis of DDT, Malathion and Kelthane on Pears. MORENV,MIXTURE; 1975; 4, (2): 157-163.   
Rec #: 390  
Call Number: NO CONTROL (DCF,MLN)  
Notes: EcoReference No.: 158648  
Chemical of Concern: DCF,DDT,MLN

205. Rawn, D. F. K.; Quade, S. C.; Shields, J. B.; Conca, G.; Sun, W. F.; Lacroix, G. M. A.; Smith, M.; Fouquet, A., and Belanger, A. Organophosphate Levels in Apple Composites and Individual Apples from a Treated Canadian Orchard. ACCSOIL,ENV; 2006; 54, (5): 1943-1948.   
Rec #: 1510  
Call Number: NO CONTROL (AZ,CPY,DMT,DZ,MDT,MLN,PSM), NO ENDPOINT (AZ,CPY,DMT,DZ,MDT,MLN,PSM)  
Notes: EcoReference No.: 94883  
Chemical of Concern: AZ,CPY,DMT,DZ,MDT,MLN,PHSL,PSM

206. Reddy, G. V. P. and Manjunatha, M. Laboratory and Field Studies on the Integrated Pest Management of Helicoverpa armigera (Hubner) in Cotton, Based on Pheromone Trap Catch Threshold Level. MOR,POPENV,MIXTURE,ORAL; 2000; 124, (5/6): 213-221.   
Rec #: 400  
Call Number: LITE EVAL CODED (DMT,FNV), NO EFFECT (CPY,DCF,DM,MLN,MP), NO MIXTURE (CBL), OK (CYP,ES,MOM)  
Notes: EcoReference No.: 154644  
Chemical of Concern: ACYP,CBL,CPY,CYP,DCF,DM,DMT,ES,FNV,MLN,MOM,MP,PHSL

207. Rehfeld, B. M. The Effect of Malathion, Polychlorinated Biphenyls and Iron on Growing Chicks. BCM,GRO,MORMIXTURE,ORAL; 1971: 137 p.   
Rec #: 2180  
Call Number: NO ENDPOINT (MLN), OK (CuS,FeS)  
Notes: EcoReference No.: 162495  
Chemical of Concern: CuS,FeS,MLN

208. Reinert, J. A. and Neel, P. L. Evaluation of Phytotoxicity of Malathion, Ethion, and Combinations of FC-435 Spray Oil with each on Twenty-Eight Species of Environmental Plants Under Slat Shade. PHYSOIL,ENV; 1976; 89, 368-370.   
Rec #: 1120  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 41728  
Chemical of Concern: ETN,MLN

209. Ren, Z. M.; Fu, X. E.; Zeng, Y.; Liu, Y. D.; Kim, H. S., and Chon, T. S. The Stepwise Behavioral Responses of Medaka (Oryzias latipes) to Organophosphorus Pesticides in an Online Monitoring System. BEHAQUA; 2012; 13, (0): 1122-1133.   
Rec #: 2560  
Call Number: NO ENDPOINT (MLN,TCF)  
Notes: EcoReference No.: 162396  
Chemical of Concern: EPRN,MLN,PRN,TCF

210. Ren, Z. M.; Li, Z. L.; Zha, J. M.; Rao, K. F.; Ma, M.; Wang, Z., and Fu, R. S. The Avoidance Responses of Daphnia magna to the Exposure of Organophosphorus Pesticides in an On-Line Biomonitoring System. BEH. wangzj@rcees.ac.cn//: AQUA; 2009; 14, (3): 405-410.   
Rec #: 410  
Call Number: NO ENDPOINT (DDVP,MLN,MP)  
Notes: EcoReference No.: 162441  
Chemical of Concern: DDVP,EPRN,MLN,MP,PRN

211. Rezvanfar, M. A.; Rezvanfar, M. A.; Ranjbar, A.; Baeeri, M.; Mohammadirad, A., and Abdollahi, M. Biochemical Evidence on Positive Effects of Rolipram a Phosphodiesterase-4 Inhibitor in Malathion-Induced Toxic Stress in Rat Blood and Brain Mitochondria. BCM,CEL,PHYINJECT,MIXTURE; 2010; 98, 135-143.   
Rec #: 2530  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162512  
Chemical of Concern: MLN

212. Ritchie, S. A.; Long, S., and Montgomery, B. Efficacy of Methyl Bromide Fumigation and Insecticidal Dips Against Aedes Eggs on Lucky Bamboo. MORAQUA,ENV,MIXTURE; 2004; 20, (3): 283-285.   
Rec #: 1090  
Call Number: LITE EVAL CODED (BFT,LCYT,MB), NO ENDPOINT (MB), NO MIXTURE (ALSV,CBL,MLN)  
Notes: EcoReference No.: 81447  
Chemical of Concern: ALSV,BFT,CBL,LCYT,MB,MLN

213. Robertson, J. L.; Lyon, R. L.; Shon, F. L., and Gillette, N. L. Contact Toxicity of Twenty Insecticides Applied to Symmerista canicosta. MORSOIL,TOP; 1972; 65, (6): 1560-1562.   
Rec #: 810  
Call Number: NO CONTROL (CBL,CPY,CPYM,FNT,MDT,MLN,MOM,MTM,PPX,PSM,RSM,TCF,TVP)  
Notes: EcoReference No.: 114519  
Chemical of Concern: CBL,CPY,CPYM,FNT,FNTH,MDT,MLN,MOM,MTM,PPX,PSM,PYN,RSM,TCF,TVP

214. Robles-Mendoza, C.; Garcia-Basilio, C.; Cram-Heydrich, S.; Hernandez-Quiroz, M., and Vanegas-Perez, C. Organophosphorus Pesticides Effect on Early Stages of the Axolotl Ambystoma mexicanum (Amphibia: Caudata). BEH,GRO,MORAQUA; 2009; 74, (5): 703-710.   
Rec #: 1560  
Call Number: LITE EVAL CODED (CPY), NO ENDPOINT (MLN)  
Notes: EcoReference No.: 116837  
Chemical of Concern: CPY,MLN

215. Rodriguez-Ariza, A.; Alhama, J.; Diaz-Mendez, F. M., and Lopez-Barea, J. Content of 8-oxodG in Chromosomal DNA of Sparus aurata Fish as Biomarker of Oxidative Stress and Environmental Pollution. BCM,CEL. Departamento de Bioquimica y Biologia Molecular e Instituto de Biologia Basica y Aplicada, Universidad de Cordoba, Avenida de Medina Azahara s/n, 14071 Cordoba, Spain//: INJECT; 1999; 438, (2): 97-107.   
Rec #: 820  
Call Number: LITE EVAL CODED (CuCl,PAQT), NO EXP TYPE (CuCl,MLN,PAQT)  
Notes: EcoReference No.: 60863  
Chemical of Concern: CuCl,DLD,MLN,PAQT

216. Rosen, P. The Susceptibility of Culex pipiens fatigans Larvae to Insecticides in Rangoon, Burma. MORAQUA; 1967; 37, 301-310.   
Rec #: 1900  
Call Number: NO CONTROL (FNT,MLN)  
Notes: EcoReference No.: 4677  
Chemical of Concern: DDT,DLD,EPRN,FNT,FNTH,MLN,PRN

217. Rossiter, P. D. Insecticides to Control Sorghum Midge Contarinia sorghicola (Coq.). POPSOIL,ENV; 1977; 34, (2): 147-150.   
Rec #: 1310  
Call Number: NO ENDPOINT (CBL,DMT,DZ,MLN), TARGET MANUAL (DMT,DZ), TARGET2012 (CBL)  
Notes: EcoReference No.: 56016  
Chemical of Concern: CBL,DDT,DMT,DZ,MLN

218. Roulston, W. J.; Schuntner, C. A.; Schnitzerling, H. J., and Wilson, J. T. Detoxification as a Mechanism of Resistance in a Strain of the Cattle Tick Boophilus microplus (Canestrini) Resistant to Organophosphorus and Carbamate Compounds. MORENV; 1969; 22, (6): 1585-1589.   
Rec #: 430  
Call Number: NO CONTROL (CBL,CMPH,CPY,DMT,DZ,FNT,MLN,PSM)  
Notes: EcoReference No.: 162059  
Chemical of Concern: CBL,CMPH,CPY,DDT,DMT,DZ,ETN,FNT,FNTH,MLN,PSM

219. Roulston, W. J.; Stone, B. F.; Wilson, J. T., and White, L. I. Chemical Control of an Organophosphorus- and Carbamate-Resistant Strain of Boophilus microplus (Can.) from Queensland. MOR,REPENV; 1968; 58, (2): 379-392.   
Rec #: 420  
Call Number: NO DURATION (CMPO,DCTP,DMT,FNT,Naled,TCF,TVP), NO ENDPOINT (CBL,CMPH,CPY,DZ,MDT,MLN,PSM)  
Notes: EcoReference No.: 162383  
Chemical of Concern: CBL,CMPH,CMPO,CPY,DCTP,DDT,DMT,DZ,ETN,FNT,FNTH,MDT,MLN,Naled,PPHD,PSM,TCF,TVP,TXP

220. Ruppel, R. F. and Gomulinski, M. S. Insecticide Foliage Sprays for Cereal Leaf Beetle Control. POPENV; 1968; 50, (4): 431-439.   
Rec #: 440  
Call Number: NO ENDPOINT (CBF,CBL,DDVP,ES,MLN,OXD,PSM,TCF), PESTS (CBF,CPY,ES,PRT,PSM), TARGET2012 (AZ,CBF,CBL,CPY,DDVP,ES,OXD,PPX,PRT,PSM,TCF)  
Notes: EcoReference No.: 162073  
Chemical of Concern: AZ,CBF,CBL,CHD,CPY,DDVP,DLD,ES,HCCH,MLN,OXD,PPCP,PPHD,PPX,PRT,PSM,TCF

221. Sadhu, A. K. and Mukhopadhyay, P. K. Comparative Effect of Two Pesticides Malathion and Carbofuran on Testes of Clarias batrachus (Linn.). ACC,CEL,PHYAQUA; 1985; 6, (3): 217-222.   
Rec #: 750  
Call Number: NO ENDPOINT (CBF,MLN)  
Notes: EcoReference No.: 11554  
Chemical of Concern: CBF,MLN

222. Saini, R. K. and Chopra, N. P. Relative Toxicity of Different Insecticides to Field-Collected Larvae of Earias vittella (Fab.). MORENV; 1988; 12, (2): 169-170.   
Rec #: 450  
Call Number: NO CONTROL (CYP,ES,FNT,FNV,MLN), PESTS (ES,FNV), TARGET2012 (CYP,FNT)  
Notes: EcoReference No.: 154374  
Chemical of Concern: CYP,ES,FNT,FNV,MLN

223. Saini, R. K.; Chopra, N. P., and Verma, A. N. Development of Insecticide Resistance and Cross-Resistance in Fenvalerate-, and Cypermethrin-Selected Strains of Earias vittella (Fab.). MORENV; 1989; 25, (3): 289-295.   
Rec #: 460  
Call Number: NO CONTROL (CBL,CYP,ES,FNT,FNV,MLN), PESTS (ES,FNV), TARGET2012 (CBL,CYP,FNT)  
Notes: EcoReference No.: 154647  
Chemical of Concern: CBL,CYP,ES,FNT,FNV,MLN

224. Saleh, M. S.; Kelada, N. L., and Abdeen, M. I. Factors Affecting Efficacy of Bacillus thuringiensis H-14 Against Mosquito Larvae with Special Reference to the Joint Action of the Pathogen with Three Chemical Insecticides. 1990; 63, (1): 10-13.   
Rec #: 1130  
Call Number: NO ENDPOINT (CPY,FNV,MLN)  
Notes: EcoReference No.: 93061  
Chemical of Concern: CPY,FNV,MLN

225. Sanchez, B. C. Development of Novel Biomarkers of Fish Exposure to Environmental Contaminants. CELINJECT; 2009: 140 p. (UMI# 3379758).   
Rec #: 2200  
Call Number: NO EXP TYPE (ATZ,KCN,MLN,PAHs,PCP,PHE), NO PUBL AS (ATZ,KCN,MLN,PCP)  
Notes: EcoReference No.: 153883  
Chemical of Concern: ATZ,CdCl,KCN,MLN,PAHs,PCB,PCP,PHE,TXP

226. Schaefer, C. H. and Mulligan III, F. S. Potential for Resistance to Pyriproxyfen: A Promising New Mosquito Larvicide. MORAQUA; 1991; 7, (3): 409-411.   
Rec #: 1670  
Call Number: NO CONTROL (CPY,MLN)  
Notes: EcoReference No.: 9642  
Chemical of Concern: CPY,EPRN,FNTH,MLN,PRN,PYX

227. Schafer, E. W. Acute Oral Toxicity of 369 Pesticidal, Pharmaceutical and Other Chemicals to Wild Birds. MORORAL; 1972; 21, 315-330.   
Rec #: 560  
Call Number: NO CONTROL (DMT,MLN,MOM,TMP)  
Notes: EcoReference No.: 38655  
Chemical of Concern: DMT,MLN,MOM,TMP

228. Schamber, E. M. L. Examination of Wright's Shifting Balance Theory of Evolution as Applied to Animal Breeding, Detection of Epistatic Variance, and Applications to Insect Pest Management. MOR. https://login.libpdb.d.umn.edu:2443/login?url=http://proquest.umi.com/pqdweb?did=728842041&Fmt=7&clientId=3285&RQT=309&VName=PQD//: ENV; 1999: 139 p. (UMI# 3017680).   
Rec #: 2410  
Call Number: NO CONTROL (DM,MLN)  
Notes: EcoReference No.: 157468  
Chemical of Concern: DM,MLN

229. Seaton, K. A.; Woods, W. M., and Walsh, P. G. Postharvest Disinfestation of Arthropods from Field-Grown Geraldton Wax (Chamelaucium uncinatum Schauer). POPENV; 1993; 21, (2): 147-151.   
Rec #: 2360  
Call Number: LITE EVAL CODED (BFT,DM,FVL), NO EFFECT (DMT,MLN,PMR), OK (ALSV)  
Notes: EcoReference No.: 156659  
Chemical of Concern: ALSV,BFT,DM,DMT,FVL,MLN,PMR

230. Seume, F. W.; Casida, J. E., and O'Brien, R. D. Effects of Parathion and Malathion Separately and Jointly upon Rat Esterases In Vivo. BCM,PHYINJECT,MIXTURE; 1960; 8, (1): 43-47.   
Rec #: 2120  
Call Number: NO ENDPOINT (MLN), NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162506  
Chemical of Concern: EPRN,MLN,PRN

231. Seume, F. W. and O'Brien, R. D. Potentiation of the Toxicity to Insects and Mice of Phosphorothionates Containing Carboxyester and Carboxyamide Groups. MORINJECT,MIXTURE; 1960; 2, (5): 495-503.   
Rec #: 1680  
Call Number: NO CONTROL (DMT,DZ,MLN,MVP,TCF), NO EXP TYPE (DMT,DZ,MLN,MVP,TCF)  
Notes: EcoReference No.: 117765  
Chemical of Concern: DMT,DZ,MLN,MVP,TCF

232. Shafiee, H.; Mohammadi, H.; Rezayat, S. M.; Hosseini, A.; Baeeri, M.; Hassani, S.; Mohammadirad, A.; Bayrami, Z., and Abdollahi, M. Prevention of Malathion-Induced Depletion of Cardiac Cells Mitochondrial Energy and Free Radical Damage by a Magnetic Magnesium-Carrying Nanoparticle. BCM,CEL. Pharmaceutical Sciences Branch, Islamic Azad University.//: INJECT,MIXTURE; 2010; 20, (9): 538-543.   
Rec #: 2780  
Call Number: NO EXP TYPE (MLN)  
Notes: EcoReference No.: 162532  
Chemical of Concern: MLN

233. Singh, M. and Kumar, S. Effects of Sublethal Concentrations of Dimethoate and Malathion on AChE Activity and Enzyme Kinetics of Liver of Catla catla (Ham.). BCM,MORAQUA; 2000; 20, (2): 131-135.   
Rec #: 1060  
Call Number: NO ENDPOINT (DMT,MLN)  
Notes: EcoReference No.: 103339  
Chemical of Concern: DMT,MLN

234. Singh, S. V. and Kavadia, V. S. Insecticidal Schedule for the Pests Attacking Brinjal: III. Effect on Growth and Yield of the Crop. GRO,POPSOIL,ENV,MIXTURE; 1988; 50, (4): 397-402.   
Rec #: 1290  
Call Number: LITE EVAL CODED (ADC,DS), NO MIXTURE (CBL,ES,FNT,MLN)  
Notes: EcoReference No.: 87094  
Chemical of Concern: ADC,CBL,DS,ES,FNT,MLN

235. Sistachs, M. and Leon, J. J. Chemical Control of Weeds in Soybean (Glycine max (L.) Merrill). BCM,GRO,POPSOIL,ENV; 1974; 8, 89-94.   
Rec #: 720  
Call Number: NO CONTROL (CuS,DZ,MLN), NO EFFECT (CuS,DZ,MLN), NO ENDPOINT (CuS,DZ,MLN), OK (LNR,PMT)  
Notes: EcoReference No.: 26197  
Chemical of Concern: AMTR,CuS,DZ,FMU,LNR,MLN,PMT,Zineb

236. Slimak, K. M. Avoidance Response as a Sublethal Effect of Pesticides on Lumbricus terrestris (Oligochaeta). BEHENV; 1997; 29, (3/4): 713-715.   
Rec #: 670  
Call Number: NO ENDPOINT (ACP,CBL,CTN,Captan,DZ,MAL,MLN)  
Notes: EcoReference No.: 92008  
Chemical of Concern: ACP,CBL,CTN,Captan,DZ,HCCH,MAL,MLN,PPCP

237. Small, G. J.; Karunaratne, S. H. P. P.; Chadee, D. D., and Hemingway, J. Molecular and Kinetic Evidence for Allelic Variants of Esterase Estbeta1 in the Mosquito Culex quinquefasciatus. MORAQUA; 1999; 13, (3): 274-281.   
Rec #: 1140  
Call Number: NO CONC (CPYO,MLO), LITE EVAL CODED (LCYT,MLN,PPX)  
Notes: EcoReference No.: 120182  
Chemical of Concern: CPYO,LCYT,MLN,MLO,PPX

238. Speirs, R. D. and Lang, J. H. Contact, Residue, and Vapor Toxicity of New Insecticides to Stored-Product Insects. II. BEH,MORENV; 1970; 885, 35 p.   
Rec #: 470  
Call Number: NO CONTROL (DCTP,DDVP,DMT,DZ,FNT,MLN,Naled,OXD,PSM), PESTS (DMT,PSM), TARGET2012 (DCTP,DDVP,DZ,FNT,Naled,OXD)  
Notes: EcoReference No.: 162295  
Chemical of Concern: DCTP,DDVP,DMT,DZ,FNT,FNTH,HCCH,MLN,Naled,OXD,PPCP,PSM

239. Srinivasa Reddy, D.; Srivastava, C., and Paul, B. Residual Toxicity of Impregnated Insecticides on Gunnybags Against Red Flour Beetle (Tribolium castaneum). MORENV; 2005; 75, (8): 532-534.   
Rec #: 2370  
Call Number: NO CONTROL (BFT,CYP,DDVP,DM,MLN), TARGET2012 (BFT,CYP,DDVP,DM)  
Notes: EcoReference No.: 156660  
Chemical of Concern: BFT,CYP,DDVP,DM,MLN

240. Staicu, A. C.; Munteanu, M. C., and Dinischiotu, A. Malathion Induced Histological Modifications in Gills and Kidney of Carassius auratus gibelio. CEL. Faculty of Biology, University of Bucharest, Bucharest, Romania.Lucrari Stiintifice - Zootehnie si Biotehnologii, Universitatea de Stiinte Agricole si////: AQUA; 2008; 41, (1): 448-453.   
Rec #: 480  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 121255  
Chemical of Concern: MLN

241. Stevenson, J. H. The Acute Toxicity of Unformulated Pesticides to Worker Honey Bees (Apis mellifera L.). MORORAL,TOP; 1978; 27, 38-40.   
Rec #: 1870  
Call Number: NO CONTROL (ATN,AZ,BMY,BRSM,CBL,CPY,Captan,Conazoles,DCF,DCTP,DFZ,DM,DMB,DMS,DMT,DS,DZ,DZM,ES,FNT,MCPP1,MLN,MVP,OML,OMT,OXD,PIRE,PIRM,PMR,PQT,PRT,RSM,RTN,TDF,TFN)  
Notes: EcoReference No.: 38931  
Chemical of Concern: ATN,AZ,BMY,BRSM,CBL,CHD,CMD,CPY,Captan,Conazoles,DCF,DCTP,DDT,DFZ,DLD,DM,DMB,DMS,DMT,DS,DZ,DZM,EN,ES,FNF,FNT,HCCH,MCPA,MCPP1,MLN,MVP,OML,OMT,OTQ,OXD,PIM,PIRE,PIRM,PMR,PPCP,PQT,PRT,PYN,RSM,RTN,TDF,TFN,TYF

242. ---. Laboratory and Field Assessment of Pesticide Poisoning of Honeybees (Apis mellifera). MORORAL,TOP; 1970; 2, 378-385.   
Rec #: 1370  
Call Number: NO CONTROL (ATN,CBL,DCTP,DMT,DS,DZ,ES,MLN,MVP,PRT)  
Notes: EcoReference No.: 96450  
Chemical of Concern: ATN,CBL,CHD,DCTP,DDT,DLD,DMT,DS,DZ,EN,ES,MLN,MVP,PRT,PYN

243. Stevenson, J. H.; Needham, P. H., and Walker, J. Poisoning of Honeybees by Pesticides: Investigations of the Changing Pattern in Britain Over 20 Years. MORORAL,TOP; 1978: 55-72.   
Rec #: 1660  
Call Number: NO CONTROL (ATN,AZ,BMY,BRSM,CBL,CPY,Captan,Conazoles,DCF,DCTP,DFZ,DM,DMB,DMS,DMT,DS,DZ,DZM,ES,FNT,MCPP1,MLN,MVP,OML,OMT,OXD,PIRE,PIRM,PMR,PQT,PRT,RSM,RTN,TDF,TFN)  
Notes: EcoReference No.: 35461  
Chemical of Concern: ATN,AZ,BMY,BRSM,CBL,CHD,CPY,Captan,DCF,DCTP,DDT,DFZ,DLD,DM,DMB,DMS,DMT,DS,DZ,DZM,EN,ES,FNF,FNT,HCCH,MCPA,MCPP1,MLN,MVP,OML,OMT,OTQ,OXD,PIM,PIRE,PIRM,PMR,PPCP,PQT,PRT,RSM,RTN,TDF,TFN,TYF

244. Sudhakar, T. R.; Bano, S., and Rao, H. S. N. Management of Rice Earhead Bug in Andhra Pradesh. POPSOIL,ENV; 1993; 21, (2): 141-144.   
Rec #: 1430  
Call Number: NO ENDPOINT (ES,MLN)  
Notes: EcoReference No.: 91036  
Chemical of Concern: ES,MLN

245. Sun, C. N.; Chung, T. C., and Dai, S. M. Insecticide Resistance in the Brown Planthopper Nilaparvata lugens Stal (Homoptera: Delphacidae). MORENV,MIXTURE; 1984; 7, (2/3): 167-181.   
Rec #: 1300  
Call Number: NO CONTROL (CBF,CBL,CYP,DM,FNV,FVL,MLN,MLO,MOM,MP,PMR,PPB,PPX,TLM,TMT), NO MIXTURE (PPB), TARGET2012 (CBF,CBL,CYP,DM,FNV,FVL,MOM,MP,PMR,PPX,TLM,TMT)  
Notes: EcoReference No.: 92971  
Chemical of Concern: CBF,CBL,CYP,DDT,DM,EPRN,FNV,FVL,FYT,MLN,MLO,MOM,MP,PMR,PPB,PPX,PRN,TLM,TMT

246. Sutherland, D. J. Toxicity of Insecticides to Aedes aegypti Larvae. MORAQUA; 1964; 51, 107-110.   
Rec #: 1950  
Call Number: NO CONTROL (AZ,DDVP,MLN,Naled,PRT,TMP)  
Notes: EcoReference No.: 94001  
Chemical of Concern: AND,AZ,DDT,DDVP,DLD,EN,EPRN,FNTH,HCCH,MLN,MXC,Naled,PPCP,PRN,PRT,PYN,TMP

247. Takahashi, M. and Yasutomi, K. Insecticidal Resistance of Culex tritaeniorhynchus (Diptera: Culicidae) in Japan: Genetics and Mechanisms of Resistance to Organophosphorus Insecticides. CEL,MORAQUA; 1987; 24, (6): 595-603.   
Rec #: 1280  
Call Number: NO CONTROL (CBL,DZ,FNT,MLN,PMR,PPX,TMP)  
Notes: EcoReference No.: 100994  
Chemical of Concern: CBL,DZ,FNT,FNTH,MLN,PMR,PPX,TMP

248. Takeuchi, S.; Matsuda, T.; Kobayashi, S.; Takahashi, T., and Kojima, H. In Vitro Screening of 200 Pesticides for Agonistic Activity via Mouse Peroxisome Proliferator-Activated Receptor (PPAR)alpha and PPARgamma and Quantitative Analysis of In Vivo Induction Pathway. BCM,CELINJECT; 2006; 217, (3): 235-244.   
Rec #: 1210  
Call Number: NO EXP TYPE (ACP,ACR,AMZ,BMY,BPH,CBD,CBF,CBL,CPP,CPY,CPYM,CTN,CYP,Captan,Conazoles,DCF,DDVP,DFZ,DM,DMT,DS,DU,DZM,EFX,ES,FMP,FNT,FNV,FNZ,FRM,FTL,FVL,Folpet,GYP,IMC,IPD,LNR,MCB,MDT,MLN,MLT,MLX,MOM,MP,MTM,NNCT,OML,OXF,PAQT,PCP,PCZ,PDM,PFF,PHMD,PIRM,PMR,PMT,PPCP,PPCP2011,PPN,PRO,PRT,PSM,PZM,SXD,SZ,TBC,TBO,TCF,TDF,TFN,TFR,TFZ,THM,TLM,TVP,VCZ), NO IN VITRO (ACP,ACR,AMZ,BMY,BPH,CBD,CBF,CBL,CPP,CPY,CPYM,CTN,CYP,Captan,Conazoles,DCF,DDVP,DFZ,DM,DMT,DS,DU,DZM,EFX,ES,FMP,FNT,FNV,FNZ,FRM,FTL,FVL,Folpet,GYP,IMC,IPD,LNR,MCB,MDT,MLN,MLT,MLX,MOM,MP,MTM,NNCT,OML,OXF,PAQT,PCP,PCZ,PDM,PFF,PHMD,PIRM,PMR,PMT,PPCP,PPCP2011,PPN,PRO,PRT,PSM,PZM,SXD,SZ,TBC,TBO,TCF,TDF,TFN,TFR,TFZ,THM,TLM,TVP,VCZ)  
Notes: EcoReference No.: 89206  
Chemical of Concern: ACF,ACFM,ACP,ACR,AMZ,AND,ANL,ANZ,ASM,BDC,BMY,BPH,BSF,BTN,CBD,CBF,CBL,CHD,CPP,CPY,CPYM,CTN,CYP,Captan,Conazoles,DBN,DCF,DDVP,DFPM,DFZ,DLD,DM,DMT,DS,DU,DZM,EFX,EN,EPRN,ES,ETN,EXQ,FMP,FNT,FNTH,FNV,FNZ,FRM,FTL,FVL,FYT,FZFB,Folpet,GYP,HCCH,HPT,IFP,ILL,IMC,IPD,LNR,MBZ,MCB,MCPA,MDT,MLN,MLT,MLX,MOM,MP,MTM,MXC,OML,OXF,PAQT,PCP,PCZ,PDM,PFF,PHMD,PHSL,PIM,PIRM,PMR,PMT,PPCP,PPCP2011,PPN,PRN,PRO,PRT,PSM,PYN,PZM,SXD,SZ,TBC,TBO,TCF,TCM,TDF,TFN,TFR,TFT,TFZ,THM,TLM,TPM,TVMP,TVP,VCZ

249. Tanaka, A.; Masago, H.; Karino, K., and Ujie, A. Determination of Trace Agrochemicals in Water and Toxicity of Agrochemicals to Fish. 2. Toxicity of Decomposition Products from UV-Irradiated Organophosphorus Agents in Water. MORAQUA; 1984; 18, 4-(ABS) (67414k).   
Rec #: 930  
Call Number: LITE EVAL CODED (CPYM,DDVP,DZ,FNT), NO CONTROL (CPYM,DDVP,DZ,FNT,MLN)  
Notes: EcoReference No.: 12241  
Chemical of Concern: CPYM,DDVP,DZ,FNT,FNTH,MLN

250. Toppozada, A.; Ismail, F. I., and Eldefrawi, M. E. Susceptibility of Local Strains of Sitophilus oryzae (L.) and Tribolium castaneum (Herbst) to Insecticides. MORENV,ORAL; 1969; 5, (4): 393-397.   
Rec #: 1830  
Call Number: NO CONTROL (CBL,DDVP,DZ,MLN), TARGET2012 (CBL,DDVP,DZ)  
Notes: EcoReference No.: 54897  
Chemical of Concern: CBL,DDT,DDVP,DZ,HCCH,MLN,PPCP,PYN

251. Torres, M. E. H.; Gonzalez, F. J. E.; Cano, M. L. C.; Frias, M. M., and Vidal, J. L. M. Residues of Methamidofos, Malathion, and Methiocarb in Greenhouse Crops. ACCSOIL,ENV; 2002; 50, (5): 1172-1177.   
Rec #: 1730  
Call Number: NO ENDPOINT (MCB,MLN,MTM)  
Notes: EcoReference No.: 90676  
Chemical of Concern: MCB,MLN,MTM

252. Townsend, R. J.; Pottinger, R. P., and Rowe, S. J. Evaluation of Alternative Insecticides for Lucerne Flea on Pasture. POPENV; 1979; 32, 68-71.   
Rec #: 490  
Call Number: NO ENDPOINT (MLN,OMT,PSM)  
Notes: EcoReference No.: 162247  
Chemical of Concern: MLN,OMT,PSM

253. Tronsmo, A. Effect of Fungicides and Insecticides on Growth of Botrytis cinerea, Trichoderma viride and T. harzianum. POPENV; 1989; 3, (2): 151-156.   
Rec #: 980  
Call Number: NO CONTROL (AZ,BMY,CAP,Captan,Conazoles,Cu,DCF,DMT,DOD,DZ,ES,FNT,IPD,MLN,MZB,SFR,TDF,TFR,THM,VCZ), TARGET2012 (BMY,CAP,Captan,Conazoles,Cu,DOD,IPD,MZB,SFR,TDF,TFR,THM,VCZ)  
Notes: EcoReference No.: 75156  
Chemical of Concern: AZ,BMY,BTN,CAP,Captan,Conazoles,Cu,DCF,DINO,DMT,DOD,DOP,DZ,EPRN,ES,FNT,FNTH,IPD,MLN,MZB,PRN,SFR,TDF,TFR,THM,TYF,VCZ

254. Tucker, R. K. and Crabtree, D. G. Handbook of Toxicity of Pesticides to Wildlife. MORORAL; 1970: 131 p.   
Rec #: 1160  
Call Number: NO CONTROL (24D,24DXY,ATN,ATZ,AZ,CBL,DCTP,DDVP,DMT,DS,DZ,FNT,Folpet,MLN,MP,PRT,PSM,THM)  
Notes: EcoReference No.: 39146  
Chemical of Concern: 24D,24DXY,AND,ATN,ATZ,AZ,CBL,DCTP,DDT,DDVP,DLD,DMT,DS,DZ,EN,EPRN,FNT,Folpet,HCCH,HPT,MLN,MP,MXC,Nabam,PPCP,PPHD,PRN,PRT,PSM,THM,TXP,Zineb

255. U.S. Environmental Protection Agency. Semi-Annual Report. April -September 1976. ACC,BEH,CEL,GRO,MOR,POP. 14356//: AQUA,Unspecified; 1976: 51 p.   
Rec #: 1780  
Call Number: LITE EVAL CODED (CHR,PAHs,PCP), NO CONTROL (PCP), NO ENDPOINT (MLN)  
Notes: EcoReference No.: 49012  
Chemical of Concern: CHR,MLN,PAHs,PCP

256. Uno, S.; Shiraishi, H.; Hatakeyama, S., and Otsuki, A. Uptake and Depuration Kinetics and BCFs of Several Pesticides in Three Species of Shellfish (Corbicula leana, Corbicula japonica, and Cipangopludina chinensis): Comparison Between Field and Laboratory Experiment. ACCAQUA; 1997; 39, (1): 23-43.   
Rec #: 2020  
Call Number: NO CONTROL (DZ,MLN,TBC), NO ENDPOINT (DZ,MLN)  
Notes: EcoReference No.: 18399  
Chemical of Concern: DZ,MLN,TBC

257. Uno, S.; Shiraishi, H.; Hatakeyama, S.; Otsuki, A., and Koyama, J. Accumulative Characteristics of Pesticide Residues in Organs of Bivalves (Anodonta woodiana and Corbicula leana) Under Natural Conditions. ACCAQUA; 2001; 40, (1): 35-47.   
Rec #: 550  
Call Number: NO CONTROL (CTN,DZ,FNT,MLN,MLT,SZ,TBC), NO ENDPOINT (CTN,DZ,FNT,MLN,MLT,SZ,TBC)  
Notes: EcoReference No.: 65855  
Chemical of Concern: BTC,CTN,DZ,FNT,FNTH,MLN,MLT,ODZ,SZ,TBC

258. Vaidya, D. N. and Mehta, P. K. Efficacy of Field-Weathered Deposits of Insecticides for Control of Gram Podborer, (Helicoverpa armigera) and Cabbage Semilooper (Plusia orichalcea) Larvae on Egyptian Clover (Trifolium alexandrinum). MORENV; 1993; 63, (5): 306-309.   
Rec #: 1080  
Call Number: NO ENDPOINT (ES,FNV,MLN,PMR)  
Notes: EcoReference No.: 93240  
Chemical of Concern: ES,FNV,MLN,PHSL,PMR

259. Varanka, I. and Benedeczky, I. Toxicological Effect of Fifanon, K-Otrin, and Unitox on Freshwater Organisms. MOR,PHYAQUA; 1985; 10, 3-(ABS) (194:163358c).   
Rec #: 2010  
Call Number: NO CONTROL (DDVP,DM,MLN)  
Notes: EcoReference No.: 12499  
Chemical of Concern: DDVP,DM,MLN

260. Visvanathan, P.; Maruthanayagam, C., and Govindaraju, M. Effect of Malathion and Endosulfan on Biochemical Changes in Channa punctatus. BCM,MORAQUA; 2009; 19, (3): 251-257.   
Rec #: 2090  
Call Number: NO ENDPOINT (ES,MLN)  
Notes: EcoReference No.: 162417  
Chemical of Concern: ES,MLN

261. Walgenbach, J. F.; Gorsuch, C. S., and Horton, D. L. Adult Phenology and Management of Spotted Tentiform Leafminer (Lepidoptera: Gracillariidae) in North Carolina, South Carolina, and Georgia. MORSOIL,ENV,MIXTURE; 1990; 83, (3): 985-994.   
Rec #: 630  
Call Number: LITE EVAL CODED (AZ,CPY,EFV,ES,FTT,MOM,OML,PMR), NO MIXTURE (DFZ,FNV,MLN,MP,PPG,PSM), PESTS (CPY,EFV,ES,FNV,MOM,PMR), TARGET2012 (AZ,CPY,DFZ,EFV,ES,FNV,FTT,MOM,MP,OML,PMR,PPG,PSM)  
Notes: EcoReference No.: 113458  
Chemical of Concern: AZ,CPY,DFZ,EFV,EPRN,ES,ETN,FNV,FTT,MLN,MOM,MP,OML,PMR,PPG,PRN,PSM

262. Wall, W. J. Jr. and Marganian, V. M. Control of Culicoides melleus (Coq.) (Diptera: Ceratopogonidae) with Granular Organophosphorus Pesticides, and the Direct Effect on Other Fauna. POPAQUA; 1971; 31, (2): 209-214.   
Rec #: 850  
Call Number: NO ENDPOINT (CPY,DZ,MLN,TMP)  
Notes: EcoReference No.: 4800  
Chemical of Concern: CPY,DZ,FNTH,MLN,TMP

263. Ward, C. R.; Huddleston, E. W.; Owens, J. C.; Hills, T. M.; Richardson, L. G., and Ashdown, D. Control of the Banks Grass Mite Attacking Grain Sorghum and Corn in West Texas. POPSOIL,ENV; 1972; 65, (2): 523-529.   
Rec #: 860  
Call Number: LITE EVAL CODED (DZ,MTM,OXD,SFR), NO ENDPOINT (CBL,MLN), OK (AZ,DS,MDT,PRT)  
Notes: EcoReference No.: 117182  
Chemical of Concern: AZ,CBL,DEM,DS,DZ,EPRN,FNF,MDT,MLN,MTM,OXD,PRN,PRT,SFR

264. Wardlow, L. R.; Ludlam, F. A. B., and Hammon, R. P. A Comparison of the Effectiveness of Insecticides Against Glasshouse Whitefly (Trialeurodes vaporariorum). MORENV; 1975; 81, 433-435.   
Rec #: 500  
Call Number: NO CONTROL (AZ,DDVP,DMT,DZ,ES,MCB,MLN,MOM,OML,PPX,RSM,TEPP), TARGET2012 (AZ,DDVP,DMT,DZ,ES,MCB,MOM,OML,PPX,RSM,TEPP)  
Notes: EcoReference No.: 71321  
Chemical of Concern: AZ,BDC,DDT,DDVP,DMT,DZ,EPRN,ES,HCCH,MCB,MLN,MOM,OML,PPCP,PPX,PRN,PYN,RSM,TEPP

265. Wedge, D. E.; Tabanca, N.; Sampson, B. J.; Werle, C.; Demirci, B.; Baser, K. H. C.; Nan, P.; Duan, J., and Liu, Z. Antifungal and Insecticidal Activity of Two Juniperus Essential Oils. MOR,POP. USDA-ARS-NPURU, The University of Mississippi, University, MS 38677, USA. dwedge@olemiss.edu//: ENV,MIXTURE; 2009; 4, (1): 123-127.   
Rec #: 2680  
Call Number: NO ENDPOINT (AZX,BMY,Captan,MLN)  
Notes: EcoReference No.: 162623  
Chemical of Concern: AZX,BMY,CYD,Captan,MLN

266. Weir, S. M. and Salice, C. J. High Tolerance to Abiotic Stressors and Invasion Success of the Slow Growing Freshwater Snail, Melanoides tuberculatus. BEH,MOR. scott.weir@ttu.edu//The Institute of Environmental and Human Health, Department of Environmental Toxicology, Texas Tech University, Lubbock, TX 79416, USA//: AQUA; 2012; 14, (2): 385-394.   
Rec #: 2400  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162439  
Chemical of Concern: CdCl,MLN

267. Weiss, C. M. Response of Fish to Sub-Lethal Exposures of Organic Phosphorus Insecticides. BCM,MORAQUA,MIXTURE; 1959; 31, (5): 580-593.   
Rec #: 1760  
Call Number: NO CONTROL (AZ,DZ,MLN), NO ENDPOINT (AZ,DZ,MLN)  
Notes: EcoReference No.: 60203  
Chemical of Concern: AZ,DEM,DZ,EPRN,MLN,PRN

268. Wilkin, D. R.; Binns, T.; Haubruge, E., and Shires, S. The Development of a Grain Protectant, Containing the Pyrethroid Bifenthrin, Which has the Potential for Lower Terminal Residues. MORENV,MIXTURE; 1994; 2, 863-866.   
Rec #: 2150  
Call Number: LITE EVAL CODED (BFT), NO MIXTURE (MLN), TARGET2012 (BFT,DM,PIRM)  
Notes: EcoReference No.: 151569  
Chemical of Concern: BFT,DM,MLN,PIRM

269. Wilkins, A. P. and Horne, R. Wood-Density Variation of Young Plantation-Grown Eucalyptus grandis in Response to Silvicultural Treatments. GROSOIL,ENV; 1991; 40, (1/2): 39-50.   
Rec #: 2040  
Call Number: NO MIXTURE (DMT,MLN), OK (GYPI)  
Notes: EcoReference No.: 88900  
Chemical of Concern: DMT,GYPI,MLN

270. Witt, P. R. Jr.; Case, L., and Adamic, E. Malathion Treatment of Barley as Related to Malt Quality. ACC,PHYSOIL,ENV; 1960: 51-55.   
Rec #: 2080  
Call Number: NO ENDPOINT (MLN)  
Notes: EcoReference No.: 162529  
Chemical of Concern: MLN

271. Wyttenbach, C. R. and Thompson, S. C. The Effects of the Organophosphate Insecticide Malathion on Very Young Chick Embryos: Malformations Detected by Histological Examination. CEL,GRO,MORINJECT; 1985; 174, 187-202.   
Rec #: 1880  
Call Number: NO ENDPOINT (MLN), NO EXP TYPE (MLN)  
Notes: EcoReference No.: 120761  
Chemical of Concern: MLN

272. Yan, X.; Moens, M.; Han, R.; Chen, S., and De Clercq, P. Effects of Selected Insecticides on Osmotically Treated Entomopathogenic Nematodes. MORENV; 2012; 119, 152-158.   
Rec #: 2810  
Call Number: NO ENDPOINT (MLN), OK (AZD,CPY,CYP,FPN,IMC,NNCT,RTN)  
Notes: EcoReference No.: 162528  
Chemical of Concern: AZD,CPY,CYP,EMMB,FPN,IMC,MLN,NNCT,RTN,TMX

273. Yasuor, H.; Milan, M.; Eckert, J. W., and Fischer, A. J. Quinclorac Resistance: a Concerted Hormonal and Enzymatic Effort in Echinochloa phyllopogon. GRO,PHYSOIL,ENV,MIXTURE; 2012; 68, 108-115.   
Rec #: 2820  
Call Number: NO MIXTURE (MLN), OK (QNC)  
Notes: EcoReference No.: 162531  
Chemical of Concern: MLN,QNC

274. Yoshida, K. and Nishiuchi, Y. Toxicity of Pesticides to Some Water Organisms. MOR. Bulletin of the Agricultural Chemicals Inspection Station (Japan) (Noyaku Kensasho Hokoku)////: AQUA; 1972; 12, 122-128(JPN) (ENG TRANSL).   
Rec #: 1980  
Call Number: NO CONTROL (As,BMC,BS,CBL,CPY,CTN,Captan,Conazoles,Cu,DCPA,DDVP,DMB,DMDP,DMT,DU,EPTC,ES,FNT,LNR,MCA,MCPB,MCPP1,MDT,MLN,MOM,MP,MTAS,NCTN,NaPCP,Naled,PCP,PCZ,PHMD,PMT,PNB,PPCP,PPCP2011,PPN,PPX,PPZ,PSM,PYZ,QOC,SFL,STRP,SZ,TBC,TFN,THM,Zn,Zn element)  
Notes: EcoReference No.: 10258  
Chemical of Concern: 24DXY,3CE,AMTL,AMTR,AND,Ac,As,BMC,BS,CBL,CPA,CPY,CTN,Captan,Conazoles,Cu,DBN,DCPA,DDVP,DLD,DMB,DMDP,DMT,DPA,DSMA,DU,EDB,EDC,EN,EPRN,EPTC,ES,ETN,FLAC,FML,FNT,FNTH,HCCH,HPT,LNR,MCA,MCPANa,MCPB,MCPP1,MDT,MLN,MOM,MP,MTAS,NCTN,NaPCP,Naled,OPHP,PCP,PCZ,PEB,PHMD,PHSL,PMT,PNB,PPCP,PPCP2011,PPN,PPX,PPZ,PRN,PSM,PYN,PYZ,QOC,SFL,STRP,SZ,TBC,TFN,THM,TPE,TPM,TRN,Zn,Zn element

275. Yoshioka, Y.; Mizuno, T.; Ose, Y., and Sato, T. The Estimation for Toxicity of Chemicals on Fish by Physico-Chemical Properties. MOR1986; 15, (2): 195-203 (OECDG).   
Rec #: 1890  
Call Number: NO PUBL AS (BZO,CBL,CPY,CPYM,DDVP,DZ,Folpet,LLA,MLN,PPZ)  
Notes: EcoReference No.: 6600  
Chemical of Concern: 3CE,4CE,4NP,ACY,AN,AND,BZD,BZO,CBL,CF,CHD,CPY,CPYM,CTC,DDT,DDVP,DLD,DZ,EN,EPRN,ETN,Folpet,HCCH,HPT,LLA,MLN,NBZ,NP,NYP,PPCP,PPZ,PRN

276. Yu, Q.; Abdallah, I.; Han, H.; Owen, M., and Powles, S. Distinct Non-Target Site Mechanisms Endow Resistance to Glyphosate, ACCase and ALS-Inhibiting Herbicides in Multiple Herbicide-Resistant Lolium rigidum. ACC,GRO,MOR,REPSOIL,ENV,MIXTURE; 2009; 230, 713-723.   
Rec #: 2540  
Call Number: NO ENDPOINT (GYPMK,MLN)  
Notes: EcoReference No.: 162587  
Chemical of Concern: AMTL,CSF,DFPM,GYPMK,MLN

277. Yu, S. J. Detection and Biochemical Characterization of Insecticide Resistance in Fall Armyworm (Lepidoptera: Noctuidae). MORORAL; 1992; 85, (3): 675-682.   
Rec #: 2450  
Call Number: NO CONTROL (CBL,CPY,CYP,DZ,FNV,FVL,MLN,MOM,MP,PMR,TDC), PESTS (CPY,FNV,FVL,MOM,PMR), TARGET2012 (CBL,CYP,DZ,MP,TDC)  
Notes: EcoReference No.: 159448  
Chemical of Concern: CBL,CPY,CYP,DZ,FNV,FVL,MLN,MOM,MP,PMR,TDC

278. Zabrodskii, P. F.; Germanchuk, V. G., and Mandych, V. G. Inhibition of Function of T Cell Subpopulations and Decrease in Cytokine Production During Subacute Poisoning with Various Toxicants. CELINJECT,ORAL; 2008; 146, (2): 234-236.   
Rec #: 2710  
Call Number: NO EXP TYPE (DDVP,MLN), OK (MOL)  
Notes: EcoReference No.: 162530  
Chemical of Concern: AsO3Na,DDVP,MLN,MOL

279. Zakia, M. A.; Fawzia, A. E.; Zakia, A. A. E. K., and Iman, A. E. S. Alterations in Nucleic Acids, Protein Content and Mitotic Division of Vicia faba Root Tip Cells as Affected by Malathion and Tamaron Insecticides. BCM,CEL,MORSOIL,ENV; 1990; 55, 349-355.   
Rec #: 660  
Call Number: NO ENDPOINT (MLN,MTM)  
Notes: EcoReference No.: 44280  
Chemical of Concern: MLN,MTM

280. Zepp, R. G. and Schlotzhauer, P. F. Influence of Algae on Photolysis Rates of Chemicals in Water. BCMAQUA; 1983; 17, (8): 462-468.   
Rec #: 1230  
Call Number: NO CONTROL (CPY,DZ,FA,FNT,MLN,MP,NAPH,PAHs,PHE,PYR), NO ENDPOINT (CPY,DZ,FA,FNT,MLN,MP,NAPH,PAHs,PHE,PYR)  
Notes: EcoReference No.: 15794  
Chemical of Concern: AN,AND,CPY,DZ,EPRN,FA,FNT,MLN,MP,NAPH,NBZ,PAHs,PHE,PL,PRN,PYR

281. Zettler, J. L. Pesticide Resistance in Tribolium castaneum and T. confusum (Coleoptera: Tenebrionidae) from Flour Mills in the United States. MORENV; 1991; 84, (3): 763-767.   
Rec #: 1600  
Call Number: NO CONTROL (CPYM,DDVP,MLN,PPB,PPHN,RSM), PESTS (CPYM,PPHN), TARGET2012 (DDVP,RSM)  
Notes: EcoReference No.: 70830  
Chemical of Concern: CPYM,DDVP,MLN,PPB,PPHN,PYN,RSM

282. Zettler, J. L. and Arthur, F. H. Correlation of Probit Parameters of Malathion-Resistant Tribolium castaneum (Herbst) (Coleoptera: Tenebrionidae) Determined by Topical Application and Residual Methods. MORENV,TOP; 1994; 2, 872-875.   
Rec #: 2160  
Call Number: NO CONTROL (MLN)  
Notes: EcoReference No.: 151573  
Chemical of Concern: MLN

283. Zhu, K. Y.; Wilde, G. E.; Sloderbeck, P. E.; Buschman, L. L.; Higgins, R. A.; Whitworth, R. J.; Bowling, R. A.; Starkey, S. R., and He, F. Comparative Susceptibility of Western Corn Rootworm (Coleoptera: Chrysomelidae) Adults to Selected Insecticides in Kansas. MORENV; 2005; 98, (6): 2181-2187.   
Rec #: 770  
Call Number: NO CONTROL (BFT,CBL,CPY,CYP,FPN,MLN,MP), PESTS (CPY), TARGET2012 (BFT,CBL,CYP,FPN,MP)  
Notes: EcoReference No.: 111670  
Chemical of Concern: BFT,CBL,CPY,CYP,FPN,MLN,MP

Malathion Refresh Excluded Bibliographies August 2013

1. . Acephate, Cacodylic Acid, Dicamba, Dicloran, Et Al.; Tolerance Actions. 2010 Sep 29.  
Rec #: 6840  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: EPA is revoking certain tolerances for the fungicides dicloran and thiophanate-methyl; the herbicides EPTC, hexazinone, picloram, and propazine; the defoliant and herbicide cacodylic acid; the plant growth regulator and herbicide diquat, the insecticides disulfoton, methamidophos, methomyl, phosmet, piperonyl butoxide, pyrethrins, and thiodicarb; the fumigant antimicrobial and insecticide methyl bromide, and the nematicides/insecticides ethoprop and fenamiphos, and the tolerance exemptions for the insecticide/miticide pyrethrum and insecticide synergist N -octyl bicycloheptene dicarboximide. In the Federal Register of May 19, 2010 (75 FR 28155) (FRL-8821-3), EPA issued a proposal to revoke, modify, and establish specific tolerances for residues of the fungicides dicloran and thiophanate-methyl; the herbicides dicamba, EPTC, hexazinone, picloram, and propazine; the defoliant and herbicide cacodylic acid; the plant growth regulator and herbicide diquat, the insecticides disulfoton, malathion, methamidophos, methomyl, phosmet, piperonyl butoxide, pyrethrins, and thiodicarb; the fumigant, antimicrobial, and insecticide, methyl bromide, and the nematicides/insecticides, ethoprop and fenamiphos, and the tolerance exemptions for the insecticide/miticide pyrethrum and insecticide synergist N -octyl bicycloheptene dicarboximide.  
Keywords: Acids  
Keywords: Pesticides  
Keywords: Plant growth  
Keywords: Herbicides  
Keywords: Regulation  
Keywords: Manufacturers  
Keywords: Public Administration  
Keywords: Internet  
Keywords: Environmental protection English. Name - Environmental Protection Agency--EPA. Copyright - Copyright (c) 2010 Federal Information & News Dispatch, Inc. Last updated - 2010-09-29. DOI - 2149652171; 54631311; 130115; NVPG; FINDNVPG20100929en75188122

2. . Acute Illnesses Associated With Insecticides Used to Control Bed Bugs--Seven States, 2003--2010. 2011 Sep 23; 60, (37): 1269-1274.   
Rec #: 6160  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The common bed bug, Cimex lectularius, is a wingless, reddish-brown insect that requires blood meals from humans, other mammals, or birds to survive. Bed bugs are not considered to be disease vectors, but they can reduce quality of life by causing anxiety, discomfort, and sleeplessness. Bed bug populations and infestations are increasing in the United States and internationally. Bed bug infestations often are treated with insecticides, but insecticide resistance is a problem, and excessive use of insecticides or use of insecticides contrary to label directions can raise the potential for human toxicity. To assess the frequency of illness from insecticides used to control bed bugs, relevant cases from 2003-2010 were sought from the Sentinel Event Notification System for Occupational Risks (SENSOR)-Pesticides program and the New York City Department of Health and Mental Hygiene (NYC DOHMH). Cases were identified in seven states: California, Florida, Michigan, North Carolina, New York, Texas, and Washington. A total of 111 illnesses associated with bed bug-related insecticide use were identified; although 90 (81%) were low severity, one fatality occurred. Pyrethroids, pyrethrins, or both were implicated in 99 (89%) of the cases, including the fatality. The most common factors contributing to illness were excessive insecticide application, failure to wash or change pesticide-treated bedding, and inadequate notification of pesticide application. Although few cases of illnesses associated with insecticides used to control bed bugs have been reported, recommendations to prevent this problem from escalating include educating the public about effective bed bug management.  
Keywords: United States  
Keywords: Occupational Exposure  
Keywords: Fatal Outcome  
Keywords: Animals  
Keywords: Humans  
Keywords: Index Medicus  
Keywords: Aged  
Keywords: Bedding and Linens  
Keywords: Child  
Keywords: Malathion  
Keywords: Malathion -- poisoning  
Keywords: Insecticides -- poisoning  
Keywords: Insecticides  
Keywords: 0  
Keywords: Pyrethrins  
Keywords: Adult  
Keywords: Environmental Exposure  
Keywords: Insect Control -- methods  
Keywords: Bedbugs  
Keywords: 121-75-5  
Keywords: Female  
Keywords: Pyrethrins -- poisoning eng. Date completed - 2011-10-28. Date created - 2011-09-22. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-21937972; 21937972; 1545-861X

3. . Agrochemicals; Researchers From Research Center Describe Findings in Agrochemicals. 2012 May 3: 133.   
Rec #: 5770  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: "In this study, sorption-desorption isotherms and kinetics of triazine (deisopropylatrazine) and organophosphorus (malathion, parathion, and diazinon) pesticides were first investigated on various soil types ranging from clayey, acidic Puerto Rican forest soil (PR) to heavy metal contaminated small arms range (SAR) soils of sandy and peaty nature.  
Keywords: Agriculture  
Keywords: Forest soils  
Keywords: Medical research  
Keywords: Pesticides  
Keywords: Studies English. Copyright - Copyright 2012, Agriculture Week via NewsRx.com. Last updated - 2012-04-25. DOI - 2643183341; 68763892; 85202; AGCW; NWRX2012042517FC274D

4. . Cinnamates; Data From University of Gaziantep Advance Knowledge in Cinnamates. 2011 Nov 10: 36.   
Rec #: 6050  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to the authors of recent research from Gaziantep, Turkey, The aim of this study was to investigate the possible protective effects of caffeic acid phenethyl ester (CAPE), ellagic acid (EA), sulforaphan (SFN) and curcuma (CUR) against acute malathion (MAL) poisoning in rats.  
Keywords: Agriculture  
Keywords: Acids  
Keywords: Poisoning  
Keywords: Journals  
Keywords: Studies  
Keywords: Rodents English. Copyright - (c)Copyright 2011, Journal of Farming via NewsRx.com. Last updated - 2011-11-02. DOI - 2500583771; 65307621; 85235; FRMJ; NWRX2011110216D3D73E

5. . Ecotoxicology; Report Summarizes Ecotoxicology Study Findings From University of Southern Florida. 2012 Mar 23: 298.   
Rec #: 5870  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Using a combination of lab- and field-based experiments, we tested the effects of commercial and technical grades of three widely used insecticides (carbaryl, lambda-cyhalothrin, and malathion) on survival and the expression of traits associated with carnivory of pink sundews (Drosera capillaris) and Venus flytraps (Dionaea muscipula), scientists in Tampa, Florida report.  
Keywords: Studies  
Keywords: Research  
Keywords: Environmental Studies English. Copyright - Copyright 2012, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2012-03-14. DOI - 2609002741; 67963622; 85211; EEVC; NWRX2012031417B52734

6. . Fleas and Ticks. 2011 Mar; 79, ( 3): 58.   
Rec #: 6560  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Koehler and Pereira reveal their research about fleas and ticks. Their research started when PMPs were mainly trying to control fleas in houses, and before on-animal treatments were developed. At that time, they recommended controlling fleas and ticks using broadcast applications of organophosphates and carbamates to the inside of houses. These products, like malathion, diazinon and chiorpyrifos, were applied to all horizontal floor areas and also to the yard. In fact, they would recommend that the pet, the house, and the yard be treated at the same time. They found that indoor air contained high levels of insecticide after these broadcast treatments. As a result, most of those registrations were canceled because of child safety concerns. Additionally, their research involves the biology and control of many pest species like cockroaches, ants, bed bugs, and termites.  
Keywords: Agriculture--Crop Production And Soil  
Keywords: Pest control  
Keywords: Research  
Keywords: Insects  
Keywords: Biology English. Copyright - Copyright Questex Media Group Mar 2011. Document feature - Photographs. Last updated - 2011-05-03. DOI - 2335820101; 60957611; 36056; PECL; INODPECL0000505235

7. . Food Science; Studies From China Agricultural University Reveal New Findings on Food Science. 2012 Feb 23: 369.   
Rec #: 5900  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: 2012 FEB 23 - (VerticalNews.com) -- The dissipation behaviors of the two enantiomers of the organophosphorus pesticide malathion (MA) in environment samples were elucidated using a normal-phase high-performance liquid chromatography with a cellulose-tris(3,5-dimethylphenylcarbamate) (CDMPC) chiral column.  
Keywords: Agriculture  
Keywords: Food  
Keywords: Journals  
Keywords: Studies  
Keywords: China English. Name - China Agricultural University. Copyright - Copyright 2012, Agriculture Week via NewsRx.com. Last updated - 2012-02-15. DOI - 2586349001; 67387632; 85202; AGCW; NWRX201202151786E546. SubjectsTermNotLitGenreText - China

8. . Gram-Positive Bacteria; New Streptococcus Thermophilus Findings From Northeast Agricultural University Published. 2013 Jan 10: 1673.   
Rec #: 5480  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to news reporting out of Harbin, People's Republic of China, by VerticalNews editors, research stated, "Streptococcus (S.) thermophilus or Lactobacillus (L.) helveticus were inoculated into skimmed milk at 42 degrees C to study their impacts on the degradation behaviors of seven selected organophosphorus pesticides (OPPs) including dimethoate, fenthion, malathion, methyl parathion, monocrotophos, phorate and trichlorphon.  
Keywords: Agriculture  
Keywords: Bacteria  
Keywords: Milk  
Keywords: Gram-positive bacteria  
Keywords: Pesticides  
Keywords: Microbiology  
Keywords: China English. Copyright - Copyright 2013, Agriculture Week via NewsRx.com. Last updated - 2013-01-03. DOI - 2855108311; 74525872; 85202; AGCW; NWRX2013010219C95D39. SubjectsTermNotLitGenreText - China

9. . Pesticides; Findings From Indian Institute of Technology in Pesticides Reported. 2012 Aug 24: 135.   
Rec #: 5650  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to news reporting originating from Uttar Pradesh, India, by VerticalNews correspondents, research stated, "Removal of malathion from agricultural runoff was studied using novel copper-coated chitosan nanocomposite (CuCH)-a biopolymeric waste obtained from marine industry.  
Keywords: Fourier transforms  
Keywords: Nanocomposites  
Keywords: Pesticides  
Keywords: Adsorption  
Keywords: Copper  
Keywords: Research  
Keywords: India  
Keywords: Environmental Studies English. Copyright - Copyright 2012, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2012-08-15. DOI - 2736273531; 71177902; 85211; EEVC; NWRX2012081518C8C3DB. SubjectsTermNotLitGenreText - India

10. . Science; New Science Research From Kuvempu University Outlined. 2012 Mar 30: 603.   
Rec #: 5860  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Nataraj and colleagues published their study in the **Journal of Environmental Science and Health Part B, Pesticides, Food Contaminants, and Agricultural Wastes Effects of combinations of malathion and cypermethrin on survivability and time of metamorphosis of tadpoles of Indian cricket frog (Fejervarya limnocharis).**  
Keywords: Frogs  
Keywords: Pesticides  
Keywords: Environmental Studies English. Copyright - Copyright 2012, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2012-03-21. DOI - 2614358871; 68094362; 85211; EEVC; NWRX2012032117BF94D2

11. ++abar, Romina; Dolenc, Darko; Jerman, Tina; Franko, Mladen, and Treb+íe, Polonca. Photolytic and photocatalytic degradation of 6-chloronicotinic acid. 2011 Oct; 85, (5): 861-868.   
Rec #: 990  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: This work describes for the first time the photolytic and photocatalytic degradation of 6-chloronicotinic acid (6CNA) in double deionised water, which is a degradation product of neonicotinoid insecticides imidacloprid and acetamiprid, and it is known to appear in different environmental matrices. Photolytic experiments were performed with three UVA (ultraviolet A) polychromatic fluorescent lamps with broad maximum at 355 nm, while photocatalytic experiments were performed using immobilised titanium dioxide (TiO2) on six glass slides in the spinning basket inside a photocatalytic quartz cell under similar irradiation conditions. Photolytic degradation revealed no change in concentration of 6CNA within 120 min of irradiation, while the photocatalytic degradation within 120 min, obeyed first-order kinetics. The observed disappearance rate constant was k = 0.011 -\_ 0.001 minęĆ1 and t1/2 was 63.1 -\_ 5.5 min. Mineralisation rate was estimated through total organic carbon (TOC) and measurements revealed no carbon removal in case of photolysis after 120 min of exposure. However in photocatalytic experiments 46 -\_ 7% mineralisation was achieved within 120 min of irradiation. Nevertheless, the removal of total nitrogen (TN) was not observed across all experiments. Ion chromatographic analyses indicated transformation of chlorine atoms to chloride and increase of nitrate(V) ions only via photocatalytic experiments. Efficiency of selected advanced oxidation process (AOP) was investigated through toxicity assessment with Vibrio fischeri luminescent bacteria and revealed higher adverse effects of treated samples on bacteria following photocatalytic degradation in spite of the fact that higher mineralisation was achieved. New hydroxylated product generated in photocatalytic experiments with TiO2, was confirmed with liquid chromatographyÇôelectro spray ionisation mass spectrometry (LCÇôESIÇôMS/MS) analyses, gas chromatographyÇômass spectrometry (GCÇôMS) and nuclear magnetic resonance spectroscopy (1H NMR). 6-Chloronicotinic acid/ Photolysis/ Photocatalysis/ TiO2/ Toxicity/ Product study http://www.sciencedirect.com/science/article/pii/S004565351100765X

12. ++abar, Romina; Komel, Tilen; Fabjan, Jure; Kralj, Mojca Bavcon, and Treb+íe, Polonca. Photocatalytic degradation with immobilised TiO2 of three selected neonicotinoid insecticides: Imidacloprid, thiamethoxam and clothianidin. 2012 Sep; 89, (3): 293-301.   
Rec #: 1000  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: This research focused on photocatalytic degradation of imidacloprid, thiamethoxam and clothianidin employing a tailor-made photoreactor with six polychromatic fluorescent UVA (broad maximum at 355 nm) lamps and immobilised titanium dioxide (TiO2) on glass slides. The disappearance was followed by high pressure liquid chromatography (HPLCÇôDAD) analyses, wherein the efficiency of mineralization was monitored by measurements of total organic carbon (TOC). Within 2 h of photocatalysis, all three neonicotinoids were degraded following first order kinetics with rate constants k = 0.035 -\_ 0.001 minęĆ1 for imidacloprid, k = 0.019 -\_ 0.001 minęĆ1 for thiamethoxam and k = 0.021 -\_ 0.000 minęĆ1 for clothianidin. However, the rate of mineralization was low, i.e. 19.1 -\_ 0.2% for imidacloprid, 14.4 -\_ 2.9% for thiamethoxam and 14.1 -\_ 0.4% for clothianidin. This indicates that several transformation products were formed instead. Some of them were observed within HPLCÇôDAD analyses and structures were proposed according to the liquid chromatographyÇôelectro spray ionization tandem mass spectrometry analyses (LCÇôESIÇôMS/MS). The formation of clothianidin, as thiamethoxam transformation product, was reported for the first time. Imidacloprid/ Thiamethoxam/ Clothianidin/ Photocatalysis with immobilised TiO2/ LCÇôMS/MS http://www.sciencedirect.com/science/article/pii/S0045653512005498

13. Abass, K.; Turpeinen, M., and Pelkonen, O. An evaluation of the cytochrome P450 inhibition potential of selected pesticides in human hepatic microsomes. 2009; 44, 553-563.   
Rec #: 11640  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The goal of this work was to study the ability of 18 pesticides to inhibit selective model activities for all major xenobiotic-metabolizing enzymes, namely CYP1A1/2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1 and 3A4. Generally organophosphorus insecticides were the most potent and extensive inhibitors, especially towards CYP1A1/2 (IC(50) values of chlorpyrifos, fenitrothion and profenofos similar to 3 mu M), CYP2B6 (IC(50) values of chlorpyrifos and fenitrothion 2.5 mu M), CYP2C8 (fenitrothion 4.3 mu M), CYP2C9 (fenitrothion and malathion 4.8 and 2.5 mu M, respectively), CYP2D6 (chlorpyrifos and phenthoate similar to 3 mu M) and CYP3A4 (chlorpyrifos, fenitrothion and phenthoate 3-4 mu M). Otherwise there were quite considerable differences in potency and extent of inhibition between different organophosphates. Pyrethroids were in general very weak or inactive. Deltamethrin and fenvalerate were potent inhibitors of CYP2D6 (IC(50) values of similar to 3 mu M) while lambda-cyhalothrin potently inhibited both CYP2D6 and CYP3A4-mediated activities (IC(50)'s about 3-4 mu M). Some pesticides caused relatively potent inhibitions sporadically (carbendazim, CYP2D6, IC(50) = 12 mu M; atrazine, CYP3A4, IC(50) = 2.8 mu M; glyphosate, CYP2C9, IC(50) = 3.7 mu M; hexaflumuron, IC(50) = 6.0 mu M). With the exceptions of alpha-cypermethrin, cypermethrin, isoproturon, carbaryl and abamectin, most pesticides inhibited relatively potently at least one CYP-selective activity, which may have relevance for potential interactions in occupational exposures and for further studies on the CYP-associated metabolism of respective pesticides.  
Number of Volumes: 6  
ISI Document Delivery No.: 535VX <Go to ISI>://CCC:000273001100007

14. Abdel-Nasser, G; Al-Turki, a M; Al-Wabel, M I, and El-Saeid, M H. Behavior of Atrazine and Malathion Pesticides in Soil: Simulation of Transport Process Using Numerical and Analytical Models\. 2011 Mar; 5, (3): 221-235.   
Rec #: 3610  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The objectives of present study were to investigate the transport and distribution of Atrazine and Malathion in soil columns and to determine the transport parameters by using numerical and analytical models. The soil sample used in the study was collected from the surface layer of Kharj Province, Riyadh, Saudi Arabia. The present results showed that Atrazine was reached the lower boundary at only the high rate of water flux, but the low water flux did not drained from lower boundary. Both low and high water flux are able to move Malathion to the lower boundary with different magnitude. High and low water flux led to leach Atrazine downward and the maximum concentration was at 17.5 cm and 12.5 cm depth. In case of Malathion, the water flux leached Malathion out of soil column with high rate, while low rate led to concentrate the Malathion at lower depth of soil column. Numerical and analytical analysis did not differ from experimental data.  
Keywords: Environmental Studies English. Copyright - Copyright Academic Journals Inc. Mar 2011. Document feature - Equations; Tables; Graphs; References. Last updated - 2013-05-09. DOI - 2443834561; 63999031; 135834; RJNS; INODRJNS0007395163. REFERENCES. Abdel-Nasser, G., 2000. Numerical Simulation of Water Flow and Solute Transport into Subsurface Tile Drains. Washington State University, Pullman, WA, USA. Abdel-Nasser, G., 2001. Predicting atrazine transport into subsurface tile-drained soil using HYDRUS-2D model: Lysimeter study. Proceedings of BCPC Symposium on Pesticide Behaviour in Soils and Water, Nov. 12-15, Brighton, UK., pp: 301-306. Abdel-Nasser, G., 2005. Impact of olive pomace on atrazine transport parameters in sandy soil. I. partition coefficient and retardation factor. J. Saudi Soc. Agrie. Sci., 4: 1-17. Abdel-Nasser, G., 2006. Impact of olive pomace on atrazine transport parameters in sandy soil. 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15. Abdul Majeed, S; Nambi, Ksn; Taju, G; Sundar Raj, N; Madan, N; Sahul Hameed, as, and Abdul Majeed, S. Establishment and Characterization of Permanent Cell Line From Gill Tissue of Labeo Rohita (Hamilton) and Its Application in Gene Expression and Toxicology. 2013 Feb; 29, (1): 59-73.   
Rec #: 2390  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Rohu gill cell line (LRG) was established from gill tissue of Indian major carp (Labeo rohita), a freshwater fish cultivated in India. The cell line was maintained in Leibovitz's L-15 supplemented with 10 % foetal bovine serum (FBS). This cell line has been sub-cultured more than 85 passages over a period of 2 years. The LRG cell line consists of both epithelial and fibroblastic-like cells. The cells were able to grow at a wide range of temperatures from 22 to 32 degree C, the optimum temperature being 28 degree C. The growth rate of gill cells increased as the FBS proportion increased from 2 to 20 % at 28 degree C. The plating efficiency was also high (34.37 %). The viability of the LRG cell line was 70-80 % after 6 months of storage in liquid nitrogen. The karyotype analysis revealed a diploid count of 50 chromosomes. The gill cells of rohu were successfully transfected with pEGFP-N1. Amplification of mitochondrial Cox1 gene using primers specific to L. rohita confirmed the origin of this cell line from L. rohita. The cytotoxicity of malathion was assessed in LRG cell line using multiple endpoints such as 3-(4, 5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide, Neutral Red assay, Alamar Blue assay and Coomassie Blue protein assay. Acute toxicity assay on fish was conducted by exposing L. rohita for 96 h to malathion under static conditions. Statistical analysis revealed good correlation with r super(2)=0.946-0.990 for all combinations between endpoints employed. Linear correlations between each in vitro effective concentration 50 and the in vivo lethal concentration 50 data were highly significant.  
Keywords: Diploids  
Keywords: Statistical analysis  
Keywords: Mitochondria  
Keywords: G 07730:Development & Cell Cycle  
Keywords: Acute toxicity  
Keywords: Freshwater fish  
Keywords: bromides  
Keywords: Freshwater  
Keywords: Toxicity tests  
Keywords: Karyotypes  
Keywords: Malathion  
Keywords: India  
Keywords: Genetics Abstracts; ASFA 1: Biological Sciences & Living Resources; Toxicology Abstracts  
Keywords: Gene expression  
Keywords: Chromosomes  
Keywords: X 24330:Agrochemicals  
Keywords: Gills  
Keywords: Toxicology  
Keywords: Growth rate  
Keywords: Temperature effects  
Keywords: Data processing  
Keywords: Freshwater environments  
Keywords: Q1 01582:Fish culture  
Keywords: Cyclooxygenase-1  
Keywords: Cytotoxicity  
Keywords: Labeo rohita  
Keywords: Bioaccumulation  
Keywords: Primers  
Keywords: Nitrogen English. Date revised - 2013-02-01. Number of references - 62. Last updated - 2013-05-17. DOI - 16b636ef-a8ba-4b5d-bec8mfgefd107; 17668465; CS1308894; 0742-2091; 1573-6822. SubjectsTermNotLitGenreText - Temperature effects; Gene expression; Bioaccumulation; Diploids; Freshwater fish; Toxicity tests; Karyotypes; Toxicology; Gills; Growth rate; Data processing; Freshwater environments; Statistical analysis; Mitochondria; Acute toxicity; bromides; Malathion; Cyclooxygenase-1; Chromosomes; Cytotoxicity; Primers; Nitrogen; Labeo rohita; India; Freshwater. Ahmed, V. P. Ishaq; Chandra, V.; Sudhakaran, R.; Kumar, S. Rajesh; et al. Development and characterization of cell lines derived from rohu, Labeo rohita (Hamilton), and catla, Catla catla (Hamilton) JOURNAL OF FISH DISEASES, 32. 3 (2009): 211-218. WILEY-BLACKWELL PUBLISHING, INC. Anonymous. United States Environmental Protection Agency technical report. 2005. AVELLA, M.; BERHAUT, J.; PAYAN, P. 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16. Abou Zeid, A. A.; Hussein, H. A., and Shahin, A. A. Aspects of High Concentrations of Certain Organophosphorus Insecticides on the Activity and Structure of Some Biodegrading Soil Fungi and Their Response to gamma Radiation. 2002; 1, 40-60.   
Rec #: 420  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN), OK (PFF)  
Notes: Chemical of Concern: MLN,PFF

17. Adamczyk, Sabine; Lazaro, Regina; Perez-Arquillue, Consuelo; Bayarri, Susana; Herrera, Antonio, and Lazaro, Regina. Impact of the Use of Fluvalinate on Different Types of Beeswax From Spanish Hives. 2010 Apr; 58, (3): 733-739.   
Rec #: 7050  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Acaricides are applied in agriculture as phytosanitary products against pests and in apiculture to control the bee parasite Varroa destructor. Poor apicultural practices could result in an accumulation of residues in honeybees, in the environment, and in beeswax and other bee products by migration from the wax comb into stored honey through a process of diffusion and consequently constitute a potential risk for humans. In this study, six different types of **beeswax samples** were analysed for the determination of **residues of fluvalinate, coumaphos, and bromopropylate and its metabolite 4,4'-dibromobenzophenone,** all of which are the most commonly acaricides used by Spanish beekeepers against V. destructor. The analytic method consists of solid-phase extraction on a SPE Florisil cartridge and high-performance liquid chromatography separation using a photo diode array detector. The results show that fluvalinate residues were detected in 36.3% of samples, ranging from 1.2 to 6.6 mu g/g wax. Residues of coumaphos, bromopropylate, and 4,4'-dibromobenzophenone were not found to be greater than their detection limits. This study indicates that the analysis of these compounds in beeswax samples could be used as bioindicators of fluvalinate sanitary treatment and handling practices applied by beekeepers.  
Keywords: Agriculture  
Keywords: High-performance liquid chromatography  
Keywords: Parasites  
Keywords: Z 05300:General  
Keywords: Contamination  
Keywords: Apis mellifera  
Keywords: Metabolites  
Keywords: AQ 00004:Water Treatment  
Keywords: acaricides  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Migration  
Keywords: Varroa destructor  
Keywords: Environmental Studies  
Keywords: pests  
Keywords: Sanitation  
Keywords: Entomology Abstracts; Environment Abstracts; Pollution Abstracts; Aqualine Abstracts; Toxicology Abstracts  
Keywords: Coumaphos  
Keywords: Apiculture  
Keywords: Diffusion  
Keywords: Pests  
Keywords: Acaricides  
Keywords: X 24300:Methods  
Keywords: Honey  
Keywords: Bioindicators  
Keywords: migration  
Keywords: Residues  
Keywords: Beeswax  
Keywords: agriculture  
Keywords: fluvalinate  
Keywords: Liquid chromatography  
Keywords: Analytical Methods  
Keywords: Detection Limits  
Keywords: Water Pollution Effects  
Keywords: Accumulation  
Keywords: Indicator species English. Date revised - 2010-02-01. Last updated - 2011-10-25. DOI - OB-b0b0ad0d-4f4f-49de-9586mfgefd107; 12667433; 0090-4341; 1432-0703. SubjectsTermNotLitGenreText - Agriculture; High-performance liquid chromatography; Parasites; Beeswax; Metabolites; Migration; fluvalinate; Coumaphos; Diffusion; Apiculture; Acaricides; Pests; Honey; Indicator species; Bioindicators; migration; pests; Sanitation; Residues; Liquid chromatography; agriculture; acaricides; Contamination; Analytical Methods; Detection Limits; Water Pollution Effects; Accumulation; Apis mellifera; Varroa destructor

18. Adhikari, S. ; Chattopadhyay, P., and Ray, L. Biosorption of Malathion by dry cells of an isolated Bacillus sp S(14). 2010; 22, 207-213.   
Rec #: 11730  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The removal of Malathion, a moderately toxic organophosphate pesticide causing environmental pollution, from dilute aqueous solutions was studied. The experimental results showed that the dry cells of Bacillus sp. S(14) were effective in removing Malathion from solution. Biosorption equilibrium was attained within 6 h. Maximum biosorption of Malathion (81.4%) was observed under the following environmental conditions, pH 6.5, temperature 25 degrees C, dry biomass concentration 1 g L(-1) at 6 h. Both Langmuir and Freundlich isotherms were tested and the latter had a better fit with the data. The dried powdered cells of Bacillus sp. S(14) can be safely stored for 60 days at room temperature without any loss of biosorption efficiency. The results suggest that the dry cells of the isolated Bacillus sp. S(14) can be used as a biosorbent for an efficient removal of Malathion from aqueous solutions.  
Number of Volumes: 3  
ISI Document Delivery No.: 678OG <Go to ISI>://CCC:000284088400008

19. Adhikari, S; Chattopadhyay, P; Ray, L, and Adhikari, S. Biosorption of Malathion by Immobilized Cells of Bacillus Sp. S Sub(14). 2010; 22, (4): 271-276.   
Rec #: 4420  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Biosorption is potentially an attractive technology for the treatment of wastewater by removing pesticide molecules from dilute solutions. This study investigated the feasibility of an isolated Bacillus sp. S sub(14) immobilized in calcium alginate that was used as a biosorbent for Malathion removal from aqueous solutions in batch mode. The highest value of Malathion uptake by isolated Bacillus sp. S sub(14) (1.33g L super(-1), dry basis) immobilized in 3% calcium alginate was 64.4% at 25 degree C and pH7.0 when the initial Malathion concentration was 50 mg L super(-1). Equilibrium was attained at 8 h. The sorption data conformed well to the Fruendlich isotherm model.  
Keywords: Feasibility studies  
Keywords: Sorption  
Keywords: Data processing  
Keywords: Immobilized cells  
Keywords: Waste treatment  
Keywords: Malathion  
Keywords: Bioavailability  
Keywords: Chemical speciation  
Keywords: Pesticides  
Keywords: biosorption  
Keywords: calcium alginate  
Keywords: Isotherms  
Keywords: X 24330:Agrochemicals  
Keywords: Toxicology Abstracts  
Keywords: Bacillus  
Keywords: Technology English. Date revised - 2011-06-01. Last updated - 2012-05-07. DOI - MD-0015372875; 14339794; 0954-2299. SubjectsTermNotLitGenreText - Data processing; Chemical speciation; Pesticides; calcium alginate; biosorption; Immobilized cells; Isotherms; Malathion; Feasibility studies; Sorption; Bioavailability; Waste treatment; Technology; Bacillus

20. ---. Continuous Removal of Malathion by Immobilised Biomass of Bacillus Species S Sub(14) Using a Packed Bed Column Reactor. 2012; 24, (3): 167-175.   
Rec #: 2880  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Biosorption of malathion from aqueous solution was studied using Bacillus sp. S sub(14) immobilised on calcium alginate (3%) using a packed bed column reactor at a temperature of 25 degree C and a pH of 7.0. The experiments were conducted to study the effect of important design parameters such as bed height, flow rate and influent malathion concentration. Maximum removal capacity (57%) was found at 4 mL min super(-1) flow rate, 6.0 cm bed height and 25 mg L super(-1) influent malathion concentration. The Adam-Bohart model, Wolborska model, Thomas model, Yoon-Nelson model were employed to determine characteristic parameters such as saturation concentration, external mass transfer coefficient, Thomas rate constant, the maximum solid phase concentration of the solute, rate constant, and the time required for 50% adsorbate breakthrough time, which are all useful for process design. Experimental data were well fitted with Adam-Bohart model at the lower region of effluent/influent malathion concentration values but at higher region values data fitted well with the Thomas and Yoon-Nelson models.  
Keywords: Water Resources Abstracts  
Keywords: Indexing in process English. Date revised - 2012-11-01. Last updated - 2012-11-20. DOI - MD-0019981520; 17296112; 0954-2299

21. Adhikari, Sunita; Chattopadhyay, Parimal; Ray, Lalitagauri, and Adhikari, Sunita. Bioremediation of Malathion From Environment by an Isolated Bacillus Sp. S Sub(14). 2011 Jun 1; 53, (2): 68-83.   
Rec #: 3410  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pesticide pollution has been increased owing to their growing use to increase agricultural productivity. Pesticide residues are causing serious ecological problems as they are harmful to nontarget organisms. Physical and chemical methods of removal of pesticide molecules often involve a lengthy and expensive treatment process. In this respect bioremediation of pesticide is more effective. A bacterial strain Bacillus species (S sub(14)) capable of removing Malathion was isolated and identified in our laboratory. Maximum Malathion removal (68%) using growing cells was observed under the following environmental conditions: 50 ml medium in a 250 ml Erlenmeyer flask, pH 7.5, temperature 28 degree C, shaker speed 120 rpm, initial Malathion concentration 50 mg/l, inoculum concentration 4% (20 h cell suspension). Maximum Malathion uptake (90.09%) by the isolated strain occurred at pH 6.5, temperature 25 degree C, using 0.32 g/l washed biomass (dry basis) in 6 h. Freundlich isotherm had a better fit with the data. Scanning electron micrographs exhibited adsorption of the pesticide on the cell surface of the Bacillus species (S sub(14)). Functional groups responsible for biosorpton were identified by infrared spectral analysis. Different functional groups, such as amine, amide present on cell surface are mainly responsible for adsorption process.  
Keywords: Amides  
Keywords: Bioremediation  
Keywords: P 9999:GENERAL POLLUTION  
Keywords: Agricultural production  
Keywords: Temperature  
Keywords: Adsorption  
Keywords: Uptake  
Keywords: Amines  
Keywords: Pollution Abstracts  
Keywords: Bacillus  
Keywords: pH  
Keywords: Malathion English. Date revised - 2013-05-01. Last updated - 2013-05-31. DOI - be006026-1e2a-47c8-a451mfgefd106; 17796926; 0019-4506; 0975-007X. SubjectsTermNotLitGenreText - Amides; Bioremediation; Agricultural production; Temperature; Adsorption; Uptake; Amines; pH; Malathion; Bacillus

22. Ahmadkhaniha, R.; Samadi, N.; Salimi, M.; Sarkhail, P., and Rastkari, N. Simultaneous Determination of Parathion, Malathion, Diazinon, and Pirimiphos Methyl in Dried Medicinal Plants Using Solid-Phase Microextraction Fibre Coated With Single-Walled Carbon Nanotubes.   
Rec #: 8300  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: COMMENTS: Cites: J Chromatogr A. 1999 Mar 12;835(1-2):145-57 (medline /10220920)  
COMMENTS: Cites: J Chromatogr A. 2011 Jan 14;1218(2):334-42 (medline /21146173)  
COMMENTS: Cites: Anal Bioanal Chem. 2003 Nov;377(6):1038-46 (medline /12955396)  
COMMENTS: Cites: J Chromatogr A. 2011 Jul 29;1218(30):4892-901 (medline /21411107)  
COMMENTS: Cites: J Chromatogr B Analyt Technol Biomed Life Sci. 2007 Jun 15;853(1-2):154-62 (medline /17400037)  
COMMENTS: Cites: Anal Sci. 2008 Feb;24(2):273-6 (medline /18270422)  
COMMENTS: Cites: Talanta. 2007 Feb 28;71(3):1068-74 (medline /19071414)  
COMMENTS: Cites: J Chromatogr A. 2009 Mar 20;1216(12):2270-4 (medline /19203759)  
COMMENTS: Cites: J Chromatogr B Analyt Technol Biomed Life Sci. 2009 May 15;877(14-15):1568-74 (medline /19395320)  
COMMENTS: Cites: Anal Chim Acta. 2010 Mar 3;662(1):90-6 (medline /20152270)  
COMMENTS: Cites: J Chromatogr A. 2010 Apr 9;1217(15):2191-6 (medline /20207361)  
COMMENTS: Cites: J Chromatogr A. 2010 Jul 23;1217(30):4890-7 (medline /20561627)  
COMMENTS: Cites: J Chromatogr A. 2010 Aug 13;1217(33):5317-27 (medline /20619842)  
COMMENTS: Cites: Food Addit Contam Part A Chem Anal Control Expo Risk Assess. 2010 Oct;27(10):1460-8 (medline /20658403)  
COMMENTS: Cites: J Environ Sci Health B. 2001 Sep;36(5):517-27 (medline /11599717)  
ABSTRACT: A reliable and sensitive headspace solid-phase microextraction gas chromatography-mass spectrometry method for simultaneous determination of different organophosphorus pesticides in dried medicinal plant samples is described. The analytes were extracted by single-walled carbon nanotubes as a new solid-phase microextraction adsorbent. The developed method showed good performance. For diazinon and pirimiphos methyl calibration, curves were linear (r(2) &ge; 0.993) over the concentration ranges from 1.5 to 300 ng g(-1), and the limit of detection at signal-to-noise ratio of 3 was 0.3 ng g(-1). For parathion and malathion, the linear range and limit of detection were 2.5-300 (r(2) &ge; 0.991) and 0.5 ng g(-1), respectively. In addition, a comparative study between the single-walled carbon nanotubes and a commercial polydimethylsiloxane fibre for the determination of target analytes was carried out. Single-walled carbon nanotubes fibre showed higher extraction capacity, better thermal stability (over 350 &deg;C), and longer lifespan (over 250 times) than the commercial polydimethylsiloxane fibre. The developed method was successfully applied to determine target organophosphorus pesticides in real samples.  
MESH HEADINGS: Calibration  
MESH HEADINGS: Diazinon/\*analysis  
MESH HEADINGS: Dimethylpolysiloxanes/chemistry  
MESH HEADINGS: Limit of Detection  
MESH HEADINGS: Malathion/\*analysis  
MESH HEADINGS: Nanotechnology/\*methods  
MESH HEADINGS: Nanotubes, Carbon/\*chemistry  
MESH HEADINGS: Organophosphorus Compounds/chemistry  
MESH HEADINGS: Organothiophosphorus Compounds/\*analysis  
MESH HEADINGS: Parathion/\*analysis  
MESH HEADINGS: Pesticides/chemistry  
MESH HEADINGS: Plants, Medicinal  
MESH HEADINGS: Reproducibility of Results  
MESH HEADINGS: Solid Phase Microextraction  
MESH HEADINGS: Temperature eng

23. Ahmaruzzaman, M and Ahmaruzzaman, M. Role of Fly Ash in the Removal of Organic Pollutants From Wastewater. 2009 Feb 27; 23, (3): 1494-1511.   
Rec #: 7770  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Fly ash, a relatively abundant and inexpensive material, is currently being investigated as an adsorbent for the removal of various organic pollutants from wastewater. The wastewater contains various types of phenolic compounds, such as chloro, nitro, amino, and other substituted compounds. Various types of pesticides, such as lindane, malathion, carbofuran, etc., and dyes, such as, methylene blue, crystal violet, malachite green, etc., are also present in the wastewater. These contaminants pollute the water stream. These organic pollutants, such as phenolic compounds, pesticides, and dyes, etc., can be removed very effectively using fly ash as adsorbent. This article presents a detailed review on the role of fly ash in the removal of organic pollutants from wastewater. Adsorption of various pollutants using fly ash has been reviewed. The adsorption mechanism and other influencing factors, favorable conditions, and competitive ions, etc., on the adsorption process have also been discussed in this paper. It is evident from the review that fly ash has demonstrated good removal capabilities for various organic compounds.  
Keywords: Pollution Abstracts English. Date revised - 2010-08-01. Last updated - 2011-12-14. DOI - b97d67b7-3b78-40b2-8d90csamfg201; 13289697; 0887-0624

24. Ahmed, Tanzeel; Pathak, Rahul; Mustafa, Md; Kar, Rajarshi; Tripathi, Ashok K; Ahmed, Rafat S, and Banerjee, B D. Ameliorating Effect of N-Acetylcysteine and Curcumin on Pesticide-Induced Oxidative Dna Damage in Human Peripheral Blood Mononuclear Cells. 2011 Aug; 179, (1-4): 293-9.   
Rec #: 3280  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Endosulfan, malathion, and phosphamidon are widely used pesticides. Subchronic exposure to these contaminants commonly affects the central nervous system, immune, gastrointestinal, renal, and reproductive system. There effects have been attributed to increased oxidative stress. This study was conducted to examine the role of oxidative stress in genotoxicity following pesticide exposure using peripheral blood mononuclear cells (PBMC) in vitro. Further possible attenuation of genotoxicity was studied using N-acetylcysteine (NAC) and curcumin as known modulators of oxidative stress. Cultured mononuclear cells was isolated from peripheral blood of healthy volunteers, and exposed to varying concentrations of different pesticides: endosulfan, malathion, and phosphamidon for 6, 12, and 24 h. Lipid peroxidation was assessed by cellular malondialdehyde (MDA) level and DNA damage was quantified by measuring 8-hydroxy-2'-deoxyguanosine (8-OH-dG) using ELISA. Both MDA and 8-OH-dG were significantly increased in a dose-dependent manner following treatment with these pesticides. There was a significant decrease in MDA and 8-OH-dG levels in PBMC when co-treated with NAC or/and curcumin as compared to pesticide alone. These results indicate that pesticide-induced oxidative stress is probably responsible for the DNA damage, and NAC or curcumin attenuate this effect by counteracting the oxidative stress. [PUBLICATION ABSTRACT]  
Keywords: Antioxidants  
Keywords: 8640:Chemical industry  
Keywords: DNA Damage  
Keywords: Humans  
Keywords: 9179:Asia & the Pacific  
Keywords: Phosphamidon -- toxicity  
Keywords: Deoxyguanosine  
Keywords: Malathion  
Keywords: Curcumin -- pharmacology  
Keywords: Pesticides -- toxicity  
Keywords: Environmental Studies  
Keywords: India  
Keywords: 1540:Pollution control  
Keywords: Antioxidants -- pharmacology  
Keywords: Acetylcysteine  
Keywords: Deoxyguanosine -- analogs & derivatives  
Keywords: Malondialdehyde  
Keywords: Environmental monitoring  
Keywords: Environmental Pollutants -- toxicity  
Keywords: Curcumin  
Keywords: 8-hydroxy-2'-deoxyguanosine  
Keywords: Leukocytes, Mononuclear  
Keywords: Lipid Peroxidation -- drug effects  
Keywords: Deoxyribonucleic acid--DNA  
Keywords: Acetylcysteine -- pharmacology  
Keywords: Studies  
Keywords: 9130:Experimental/theoretical  
Keywords: Endosulfan  
Keywords: Environmental Pollutants  
Keywords: Malondialdehyde -- metabolism  
Keywords: Deoxyguanosine -- metabolism  
Keywords: Pesticides  
Keywords: Oxidative Stress -- drug effects  
Keywords: Endosulfan -- toxicity  
Keywords: Phosphamidon  
Keywords: Human exposure  
Keywords: Malathion -- toxicity English. Copyright - Springer Science+Business Media B.V. 2011. Document feature - References. Last updated - 2013-02-24. DOI - 2398033451; 62940261; 108264; EVMT; 21049288; SPVLEVMT106611791-41736. SubjectsTermNotLitGenreText - India. Ahmed, Tanzeel; Tripathi, Ashok K.; Ahmed, Rafat S.; Banerjee, Basu Dev. Assessment of phosphamidon-induced apoptosis in human peripheral blood mononuclear cells: Protective effects of N-acetylcysteine and curcumin. Journal of Biochemical and Molecular Toxicology, 24. 5 (2010): 286-292. John Wiley and Sons Inc. Ahmed, Tanzeel, Tripathi, Ashok K. 2008 "Endosulfan-Induced Apoptosis and Glutathione Depletion in Human Peripheral Blood Mononuclear Cells: Attenuation by N-Acetylcysteine" Journal of Biochemical and Molecular Toxicology 22 5 299-304. Ahmed, Tanzeel; Tripathi, Ashok K.; Suke, Sanvidhan G.; Kumar, Vivek; et al. Role of HSP27 and reduced glutathione in modulating malathion-induced apoptosis of human peripheral blood mononuclear cells: Ameliorating effect of N-acetylcysteine and curcumin. TOXICOLOGY IN VITRO, 23. 7 (2009): 1319-1325. PERGAMON-ELSEVIER SCIENCE LTD. Alizadeh, A A, Samih, M A MA 2007 "Compatibility of Verticillium lecani (Zimm.) with several pesticides." Communications in Agricultural and Applied Biological Sciences 72 4 1011-1015. Banasik, M, Stedeford, T 2003 "Selective inhibition of acetylcholinesterase in the cerebellum and hippocampus of mice following an acute treatment with malathion" Journal of Enzyme Inhibition and Medicinal Chemistry 18 6 551-555. Banerjee, B D; Pasha, S T; Hussain, Q Z; Koner, B C; et al. A comparative evaluation of immunotoxicity of malathion after subchronic exposure in experimental animals. Indian journal of experimental biology, 36. 3 (1998): 273-282. Banerjee, B.D.; Seth, V.; Ahmed, R.S. Pesticide-induced oxidative stress: Perspectives and trends. Reviews on Environmental Health, 16. 1 (2001): 1-40. Freund Publishing House Ltd. Chan, Melissa P. L.; Morisawa, Shinsuke; Nakayama, Aki; Kawamoto, Yuko; et al. Development of an in vitro blood-brain barrier model to study the effects of endosulfan on the permeability of tight junctions and a comparative study of the cytotoxic effects of endosulfan on rat and human glial and neuronal cell cultures. Environmental Toxicology, 21. 3 (2006): 223-235. John Wiley and Sons Inc. Das, P. P.; Shaik, A. P.; Jamil, K. Genotoxicity induced by pesticide mixtures: in-vitro studies on human peripheral blood lymphocytes. TOXICOLOGY AND INDUSTRIAL HEALTH, 23. 8 (2007): 449-458. SAGE PUBLICATIONS INC. Das, G. Prabhavathy; Shaik, Abjal Pasha; Jamil, Kaiser. Cytotoxicity and genotoxicity induced by the pesticide profenofos on cultured human peripheral blood lymphocytes. DRUG AND CHEMICAL TOXICOLOGY, 29. 3 (2006): 313-322. TAYLOR & FRANCIS INC. Datta, C; Dasgupta, J G; Sengupta, D; Datta, C. Interaction of organophosphorus insecticides phosphamidon & malathion on lipid profile & acetylcholinesterase activity in human erythrocyte membrane. Indian Journal of Medical Research, 100. August (1994): 87-89. Galloway, S M. International Workshop on Standardisation of Genotoxicity Test Procedures. Commentary. Mutation research, 312. 3 (1994): 201-203. Jia, Zhenquan; Misra, Hara P. Exposure to mixtures of endosulfan and zineb induces apoptotic and necrotic cell death in SH-SY5Y neuroblastoma cells, in vitro. JOURNAL OF APPLIED TOXICOLOGY, 27. 5 (2007): 434-446. JOHN WILEY & SONS LTD. Jones, Dean P. Radical-free biology of oxidative stress. AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY, 295. 4 (2008): C849-C868. AMER PHYSIOLOGICAL SOC. Koner, B C; Banerjee, B D; Ray, A; Koner, B C. Organochlorine pesticide-induced oxidative stress and immune suppression in rats. Indian Journal of Experimental Biology, 36. 4 (1998): 395-398. KUNCHANDY, E.; RAO, M. N. A. 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Singh, Nittin D.; Sharma, Anil K.; Dwivedi, Prabhaker; Patil, Rajendra D.; et al. Experimentally induced citrinin and endosulfan toxicity in pregnant Wistar rats: histopathological alterations in liver and kidneys of fetuses. JOURNAL OF APPLIED TOXICOLOGY, 28. 7 (2008): 901-907. JOHN WILEY & SONS LTD. SREEJAYAN; RAO, M. N. A. Curcuminoids as potent inhibitors of lipid peroxidation. Journal of pharmacy and pharmacology, 46. 12 (1994): 1013-1016. Pharmaceutical Press. Srinivasan, M.; Prasad, N. Rajendra; Menon, Venugopal P. Protective effect of curcumin on gamma-radiation induced DNA damage and lipid peroxidation in cultured human lymphocytes. Mutation Research, 611. 1-2 (2006): 96-103. SUBRAMANIAN, M.; SREEJAYAN; RAO, M. N. A.; DEVASAGAYAM, T. P. A.; et al. Diminution of singlet oxygen-induced DNA damage by curcumin and related antioxidants. Mutation research, 311. 2 (1994): 249-255. Elsevier. Timares, Laura; Katiyar, Santosh K; Elmets, Craig A; Timares, Laura. DNA Damage, Apoptosis and Langerhans Cells-Activators of UV-induced Immune Tolerance. Photochemistry and Photobiology, 84. 2 (2008): 422-436. American Society for Photobiology. Tope, Avinash M; Panemangalore, Myna; Tope, Avinash M. Assessment of oxidative stress due to exposure to pesticides in plasma and urine of traditional limited-resource farm workers: Formation of the DNA-adduct 8-hydroxy-2-deoxy-guanosine (8-OHdG) Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes, 42. 2 (2007): 151-155. Taylor & Francis, 11 New Fetter Lane London EC4P 4EE UK, [mailto:info@tandf.co.uk], [URL:http://www.tandf.co.uk]. VAMVAKAS, S.; BITTNER, D.; KOOB, M.; GLĂśCK, S.; et al. Glutathione depletion, lipid peroxidation, DNA double strand breaks and the cytotoxicity of 2-bromo-3-(N-acetylcystein-S-yl)hydroquinone in rat renal cortical cells. Chemico-biological interactions, 83. 2 (1992): 183-199. Elsevier Science. Yurumez, Yusuf; Cemek, Mustafa; Yavuz, Yucel; Birdane, Yavuz Osman; et al. Beneficial effect of N-acetylcysteine against organophosphate toxicity in mice. BIOLOGICAL & PHARMACEUTICAL BULLETIN, 30. 3 (2007): 490-494. PHARMACEUTICAL SOC JAPAN

25. Ahuja, D. B. Reversion of Insecticide Resistance in Tribolium: Fate of p,p'-DDT, Lindane, Malathion and Phosphine Resistance During Selection for Pirimiphos-Methyl Resistance in Tribolium castaneum (Herbst). Dep. Entomology, Agricultural Research Station, Mandore, Jodhpur, India 342 304.//: 1990; 15, (1/2): 79-81.   
Rec #: 1330  
Keywords: NO DURATION  
Call Number: NO DURATION (MLN,PPHN)  
Notes: Chemical of Concern: DDT,HCCH,MLN,PPCP,PPHN

26. Akinsiku, Sileola B. and Bialkowski, Stephen E Silva Philip J. Detecting Organic Molecules on the Surface of Inorganic Dust Particles Using Aerosol Mass Spectrometry. 2009.  
Rec #: 8150  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: Detection of organic molecules present on the surface of dust particles is important in homeland security, agriculture, and several other applications. The research presented reports the ability of the aerosol mass spectrometer (AMS) to detect molecules on the surface of dust particles without detecting the particle core. Experiments were carried out to detect semi-volatile organic compounds adsorbed onto the surface of particulates without interference from the dust particle core. Methyl salicylate, oleic acid, and organophosphorus pesticides such as Malathion were detected on the surface of particles representative of dust-type materials. Zeolite powders were used as aerosol support, representative of a typical silica mineral aerosol present in the atmosphere. Mass spectral fingerprint information was gained by first directly detecting atomized species to record their clean electron impact mass spectrum. This facilitated detection during later experiments of organic molecules coated on an inorganic support. Spectra obtained give mass spectrometric signatures of molecules coated on inorganic particles without detection of the particle core. An important feature of the AMS is the ability to equate an ion rate detected in the mass spectrometer to a mass concentration of a given chemical species in a sample using its ionization efficiency. Based on an average inlet flow rate of 1.2 cm 3 sec -1 the ionization efficiencies obtained were 5.89x10 -5 , 1.15x10 -6 , and 1.62x10 -5 for Malathion, methyl salicylate, and oleic acid, respectively. These experiments and the results obtained show that detection and characterization of organic species adsorbed onto inorganic dust particles are possible at ÎĽg m -3 concentrations using the AMS.  
Start Page: 106  
ISSN/ISBN: 9781109174830  
Keywords: 0725:Atmospheric sciences  
Keywords: 0486:Analytical chemistry  
Keywords: Atmospheric sciences  
Keywords: Pesticides  
Keywords: Methyl salicylate  
Keywords: Zeolite  
Keywords: Analytical chemistry  
Keywords: Mass spectrometer  
Keywords: Earth sciences  
Keywords: Pure sciences  
Keywords: Malathion  
Keywords: Organophosphorous English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2009. Last updated - 2010-08-07. DOI - 1805205751; 47203631; 66569; 9781109174830; 1465091. First page - n/a

27. Akkad, R. and Schwack, W. Effect of bromine oxidation on high-performance thin-layer chromatography multi-enzyme inhibition assay detection of organophosphates and carbamate insecticides. 2011; 1218, 2775-2784.   
Rec #: 11810  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Following high-performance thin-layer chromatography, thiophosphate pesticides, which inhibit choline esterases, are detectable using a multi-enzyme inhibition assay (HPTLC-EI) based on rabbit liver esterase (RLE), Bacillus subtilis (BS2) esterase, or cutinase (from Fusarium solani pisi). Because choline esterase inhibition is more effective after conversion of thiophosphate thions into their corresponding oxons, a pre-oxidation step was added to the HPTLC-EI assay. Bromine vapour was found to be more effective than iodine or UV irradiation for oxidation. Following oxidation, the inhibitory strength of parathion, parathion-methyl, chlorpyrifos, chlorpyrifos-methyl, and malathion, expressed as HPTLC enzyme inhibition factors (f(i)), increased by approximately 2 orders of magnitude. In contrast, bromine oxidation of organophosphate and carbamate insecticides resulted in a slight reduction in their inhibition factors, due to partial bromination and degradation of the parent compounds, while bromine oxidation increased the inhibition factors for demeton-S-methyl and propoxur. Apple juice and water samples spiked with paraoxon (0.001 mg/L), parathion (0.05 mg/L), and chlorpyrifos (0.5 mg/L) were used to test the HPTLC-EI system, resulting in mean recoveries of 95-106% and 91-102% for RLE and cutinase, respectively. (C) 2011 Elsevier B.V. All rights reserved.  
Number of Volumes: 19  
ISI Document Delivery No.: 762SB <Go to ISI>://CCC:000290500300016

28. Akkad, Rami and Schwack, Wolfgang. Multi-enzyme inhibition assay for the detection of insecticidal organophosphates and carbamates by high-performance thin-layer chromatography applied to determine enzyme inhibition factors and residues in juice and water samples: BIOANALYSIS OF ORGANOPHOSPHORUS TOXICANTS AND CORRESPONDING ANTIDOTES. 2010 May 15-; 878, (17Çô18): 1337-1345.   
Rec #: 1060  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Esterase inhibition assays provide an effect-directed tool of rapid screening for inhibitors in environmental and food samples. According to a multi-enzyme microtiter-plate assay, rabbit liver esterase (RLE), Bacillus subtilis esterase (BS2), and cutinase from Fusarium solani pisi (CUT) were used for the detection of 21 organophosphorus and carbamate pesticides by high-performance thin-layer chromatographyÇôenzyme inhibition assays (HPTLCÇôEI). Staining was performed with Fast Blue Salt B coupling to +\_-naphthol enzymatically released from the respective acetate used as substrate. Quantitative analysis was achieved by densitometric evaluation at 533 nm. Enzyme inhibition factors derived from HPTLCÇôEI were calculated from the slopes of the linear calibration curves, which allowed comparisons to published inhibition constants and well correlated to sensitivity parameters. Limits of detection ranged from a few pg/zone for organophosphates as strongest inhibitors to a few ng/zone for most carbamates, when RLE and BS2 were used. Without oxidation, chlorpyrifos and parathion were directly detectable at approximately 60 and 14 ng/zone, respectively. As the enzyme of lowest sensitivity, CUT was able to detect insecticides of high and low inhibitory power from the ng to ++g range per zone. Due to high selectivity of enzyme inhibition, oxon impurities of thionophosphate standards were strongly detected, although only present in low traces. The exemplary application of HPTLCÇôEI (RLE) to apple juice and drinking water samples spiked with paraoxon (0.001 mg/L), parathion (0.05 mg/L) and chlorpyrifos (0.5 mg/L) resulted in mean recoveries between 71 and 112% with standard deviations of 2.0Çô18.3%. High-performance thin-layer chromatography/ Enzyme inhibition/ Effect-directed analysis/ Cutinase/ Rabbit liver esterase/ Bacillus subtilis (BS2) esterase/ Inhibition factor/ Organophosphorus insecticides/ Carbamate insecticides http://www.sciencedirect.com/science/article/pii/S1570023209008721

29. Aktar, Md Wasim; Paramasivam, M; Sengupta, Daipayan; Purkait, Swarnali; Ganguly, Madhumita, and Banerjee, S. Impact Assessment of Pesticide Residues in Fish of Ganga River Around Kolkata in West Bengal. 2009 Oct; 157, (1-4): 97-104.   
Rec #: 4670  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: An investigation was conducted from 2001 to 2005 for determining the residual concentration of five pesticides, viz., total-HCH, total-DDT, total-Endosulfan, Dimethoate and Malathion in fish samples collected from various points of the river Ganga. Fish samples were analyzed for pesticide residues using standard laboratory procedures by GC method. It was found that total-HCH concentration remains above the MRL values for maximum number of times in comparison to four other pesticides. The pesticide contamination to fish may be due to indiscriminate discharge of polluted and untreated sewage-sludge to the river. The pesticide contents in some places are alarming. Thus proper care, maintenance, treatment and disposal of sewage water and sludge are most vital and should be the prime thrust for the nation.  
Keywords: Animals  
Keywords: 8640:Chemical industry  
Keywords: Lindane -- metabolism  
Keywords: Contamination  
Keywords: 9179:Asia & the Pacific  
Keywords: Fishes -- metabolism  
Keywords: River ecology  
Keywords: Malathion  
Keywords: India  
Keywords: Environmental Studies  
Keywords: 1540:Pollution control  
Keywords: Water Pollutants, Chemical  
Keywords: Pesticide Residues -- metabolism  
Keywords: Rivers -- chemistry  
Keywords: Ganga River  
Keywords: Pesticide Residues  
Keywords: Studies  
Keywords: Lindane  
Keywords: 9130:Experimental/theoretical  
Keywords: Endosulfan  
Keywords: Environmental Monitoring  
Keywords: Pesticides -- metabolism  
Keywords: Dimethoate -- metabolism  
Keywords: DDT -- metabolism  
Keywords: DDT  
Keywords: Pesticides  
Keywords: Endosulfan -- metabolism  
Keywords: Dimethoate  
Keywords: Water Pollutants, Chemical -- metabolism  
Keywords: Malathion -- metabolism English. Copyright - Springer Science+Business Media B.V. 2009. Last updated - 2013-02-24. DOI - 1860234211; 48541741; 108264; EVMT; 18758975; SPVLEVMT10661157518. SubjectsTermNotLitGenreText - Ganga River

30. Al-Harbi, Eman; Hamza, a; Bashammakh, a; Al-Sibaai, a; El- Shahawi, M, and Al-Harbi, Eman. Square Wave Stripping Voltammetric Determination of Malathion Pesticides in Different Matrices. 2009 Mar 23.  
Rec #: 5030  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Pesticides  
Keywords: U 7000:Multidisciplinary  
Keywords: Waves  
Keywords: Malathion English. Date revised - 2009-07-17. Last updated - 2010-05-03. DOI - CPI-5100494; 5100494

31. Al-Shayji, I. A. R.; Caslake, M. J., and Gill, J. M. R. Effects of moderate exercise on VLDL(1) and Intralipid kinetics in overweight/obese middle-aged men. 2012; 302, E349-E355.   
Rec #: 11860  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Al-Shayji IA, Caslake MJ, Gill JM. Effects of moderate exercise on VLDL(1) and Intralipid kinetics in overweight/obese middle-aged men. Am J Physiol Endocrinol Metab 302: E349-E355, 2012. First published November 15, 2011; doi:10.1152/ajpendo.00498.2011.-Prior moderate exercise reduces plasma triglyceride (TG)-rich lipoprotein concentrations, mainly in the large very low-density lipoprotein (VLDL(1)) fraction, but the mechanism responsible is unclear. We investigated the effects of brisk walking on TG-rich lipoprotein kinetics using a novel method. Twelve overweight/obese middle-aged men underwent two kinetic studies, involving infusion of Intralipid to block VLDL(1) catabolism, in random order. On the afternoon prior to infusion, subjects either walked on a treadmill for 2 h at similar to 50% maximal oxygen uptake or performed no exercise. Multiple blood samples were taken during and after infusion for separation of Intralipid (S(f) 400) and VLDL(1) (Sf 60-400). VLDL(1)-TG and -apoB production rates were calculated from their linear rises during infusion; fractional catabolic rates (FCR) were calculated by dividing linear rises by fasting concentrations. Intralipid-TG FCR was determined from the postinfusion exponential decay. Exercise reduced fasting VLDL(1)-TG concentration by 30% (P = 0.007) and increased TG enrichment of VLDL(1) particles [30% decrease in cholesteryl ester (CE)/TG ratio (P = 0.007); 26% increase in TG/apoB ratio (P = 0.059)]. Exercise also increased VLDL(1)-TG, VLDL(1)-apoB, and Intralipid- TG FCR(s) by 82, 146, and 43%, respectively (all P = 0.05), but had no significant effect on VLDL(1)-TG or -apoB production rates. The exercise-induced increase in VLDL(1)-apoB FCR correlated strongly with the exercise-induced changes in VLDL(1) CE/TG (r = -0.659, r = 0.020) and TG/apoB (r = 0.785, P = 0.002) ratios. Thus, exercise-induced reductions in VLDL(1) concentrations are mediated by increased catabolism, rather than reduced production, which may be facilitated by compositional changes to VLDL(1) particles that increase their affinity for clearance from the circulation.  
Number of Volumes: 3  
ISI Document Delivery No.: 892AZ <Go to ISI>://CCC:000300260200010

32. Al-Taher, Fadwa; Chen, Yang; Wylie, Philip, and Cappozzo, Jack. Reduction of Pesticide Residues in Tomatoes and Other Produce. 2013 Mar; 76, (6): 510-5.   
Rec #: 5440  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: There is interest in reducing pesticide residues in fruits and vegetables in order to minimize human exposure. The objectives of this study were to (i) determine the effect of various washing treatments with and without sonication on pesticide removal from tomatoes and (ii) assess the effectiveness of a water wash on select samples using a produce-washing flume. In the first set of experiments, tomatoes were contaminated with acephate, malathion, carbaryl, bifenthrin, cypermethrin, permethrin, cyhalothrin, chlorothalonil, and imidacloprid and were dried overnight. Subsets of the tomatoes were then washed (10Â°C, 1 min) with one of the following: water, sodium hypochlorite (80 ÎĽg/ml, pH 7), peroxyacetic acid (80 ÎĽg/ml), or Tween 20 (0.1%) with and without sonication. In general, the effect of sonication depended on the washing treatment and on the pesticide. A separate experiment measured pesticide residues in contaminated samples before and after being washed in a flume (22Â°C, 1 min). Pesticide residues in contaminated produce were reduced from about 40 to 90% when washed for 1 min in the flume. [PUBLICATION ABSTRACT]  
Keywords: Consumer Product Safety  
Keywords: Humans  
Keywords: Food Handling -- methods  
Keywords: Food Contamination -- analysis  
Keywords: Pesticide Residues  
Keywords: Tomatoes  
Keywords: Food Contamination -- prevention & control  
Keywords: Lycopersicon esculentum -- chemistry  
Keywords: Food contamination & poisoning  
Keywords: Pesticides  
Keywords: Pesticide Residues -- analysis  
Keywords: Human exposure  
Keywords: Public Health And Safety English. Copyright - Copyright Allen Press Publishing Services Mar 2013. Document feature - References; Tables; Graphs. Last updated - 2013-05-04. DOI - 2916085531; 76251782; 110816; FDPT; 23462090; INNNFDPT0008424347. REFERENCES. 1. Abou-Arab, A. A. K. 1999. Behavior of pesticides in tomatoes during commercial and home preparation. Food Chem. 65:509-514. 2. Anastassiades, M., S. J. Lehotay, D. Stajnbaher, and F. J. Schenck. 2003. Fast and easy multiresidue method employing acetonitrile extraction/ partitioning and "dispersive solid-phase extraction" for the determination of pesticide residues in produce. J. AOAC Int. 86:412-431. 3. Anonymous. 1996. Quick facts about pesticides/pest management. 1996. Pest management at the crossroads. Available at: http://www. pmac.net/qkft.htm. Accessed 1 September 2010. 4. Anonymous. 2010. Facts about pesticides. Available at: http:// earth91 1 .com/recycling/hazardous/pesticides/facts-about-pesticides. Accessed 1 September 2010. 5. Elkins, E. R. 1989. Effect of commercial processing on pesticide residues in selected fruits and vegetables. /. Assoc. Off. Anal. Chem. 72:533-535. 6. Gale, F., and J. C. Buzby. 2009. Imports from China and food safety issues. U.S. Department of Agriculture, Economic Research Service, Economic Information Bulletin 52:1-37. 7. Krol, W. J., T. L. Arsenault, H. M. Pylypiw, and M. J. Martina 2000. Reduction of pesticide residues on produce by rinsing. /. Agrie. Food Chem. 48:4666-4670. 8. Kruve, ?., A. Lamos, J. Kirillova, and K. Herodes. 2007. Pesticide residues in commercially available oranges and evaluation of potential washing methods. Proc. Estonian Acad. Sci. Chem. 56:134-141. 9. Mason, T. J., L. Paniwnyk, and J. P. Lorimer. 19%. The uses of ultrasound in food technology. Ultrason. Sonochem. 3:S253-S260. 10. Mezcua, M., M. A. Martinez-Uroz, P. L. Wylie, and A. R FernandezAlba. 2009. Simultaneous screening and target analytical approach by gas chromatography-quadrupole-mass spectrometry for pesticide residues in fruits and vegetables. J. AOAC Int. 92:1790. 11. Toma, M., M. Vinatoru, L. Paniwnyk, and T. J. Mason. 2001. Investigation of the effects of ultrasound on vegetal tissues during solvent extraction. Ultrason. Sonochem. 8:137-142. Abou-Arab, A A K; Abou-Arab, A A K. Behavior of pesticides in tomatoes during commercial and home preparation. Food Chemistry, 65. 4 (1999): 509-514. ANASTASSIADES, Michelangelo; LEHOTAY, Steven J.; STAJNBAHER, Darinka; SCHENCK, Frank J. Fast and easy multiresidue method employing acetonitrile extraction/partitioning and dispersive solid-phase extraction for the determination of pesticide residues in produce. Journal of AOAC International, 86. 2 (2003): 412-431. AOAC International. 4. Anonymous. 2010. Facts about pesticides. Available at: http://earth911.com/recycling/hazardous/pesticides/facts-about-pesticides. Accessed 1 September 2010. 3. Anonymous. 1996. Quick facts about pesticides/pest management. 1996. Pest management at the crossroads. Available at: http://www.pmac.net/qkft.htm. Accessed 1 September 2010. Elkins, E.R. Effect of commercial processing on pesticide residues in selected fruits and vegetables. Journal - Association of Official Analytical Chemists, 72. 3 (1989): 533-535. Gale, F; Buzby, J C; Gale, F. Imports From China and Food Safety Issues. (2009): 37. United States Department of Agriculture, 1800 M St, N W, Ste 3 Washington, DC USA, [URL:http://www.ers.usda.gov]. Krol, W.J.; Arsenault, T.L.; Pylypiw H.M., Jr.; Incorvia Mattina, M.J. Reduction of pesticide residues on produce by rinsing. Journal of Agricultural and Food Chemistry, 48. 10 (2000): 4666-4670. American Chemical Society. Kruve, Anneli; Lamos, Andrea; Kirillova, Jekaterina; Herodes, Koit; et al. Pesticide residues in commercially available oranges and evaluation of potential washing methods. Proceedings of the Estonian Academy of Sciences. Chemistry, 56. 3 (2007): 134-141. Academy of Sciences of Estonia, 7 Estonia Blvd , EE0100, Tallinn, Estonia, [URL:http://www.iiss.ee/etl/]. Mason, T J; Paniwnyk, L; Lorimer, J P. The uses of ultrasound in food technology. ULTRASONICS SONOCHEMISTRY, 3. 3 (1996): S253-S260. ELSEVIER SCIENCE BV. Mezcua, Milagros; MartĂ­nez-Uroz, Maria A.; Wylie, Philip L.; FernĂˇndez-Alba, Amadeo R. Simultaneous screening and target analytical approach by gas chromatography-quadrupole-mass spectrometry for pesticide residues in fruits and vegetables. Journal of AOAC International, 92. 6 (2009): 1790-1806. AOAC International. Toma, Maricela; Vinatoru, M.; Paniwnyk, L.; Mason, T.J. Investigation of the effects of ultrasound on vegetal tissues during solvent extraction. Ultrasonics Sonochemistry, 8. 2 (2001): 137-142. Elsevier

33. Alamgir Zaman Chowdhury, M.; Fakhruddin, A. N. M.; Nazrul Islam, Md.; Moniruzzaman, Mohammed; Gan, Siew Hua, and Khorshed Alam, Md. Detection of the residues of nineteen pesticides in fresh vegetable samples using gas chromatography-mass spectrometry. (0).  
Rec #: 1870  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract Pesticides/ vegetables/ GC-MS/ organophosphorus/ organochlorine/ carbamate http://www.sciencedirect.com/science/article/pii/S0956713513002478

34. Alexander, Dominik D; Weed, Douglas L; Mink, Pamela J; Mitchell, Meghan E, and Alexander, Dominik D. A Weight-of-Evidence Review of Colorectal Cancer in Pesticide Applicators: the Agricultural Health Study and Other Epidemiologic Studies. 2012 Oct; 85, (7): 715-745.   
Rec #: 5630  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Objective: To systematically evaluate epidemiologic studies on pesticides and colon cancer and rectal cancer in agricultural pesticide applicator populations using a transparent "weight-of-evidence" (WOE) methodological approach. Methods: Twenty-nine (29) publications from the Agricultural Health Study (AHS) and 13 additional epidemiologic studies were identified that reported data for pesticide applicators and/or specific pesticide compounds and colorectal, colon, or rectal cancer. The AHS evaluated pesticide applicators as well as dose-response associations for specific pesticide compounds, whereas the large majority of non-AHS evaluated applicators but did not analyze specific compounds or dose-response trends. This WOE assessment of 153 different pesticide-outcome pairs emphasized several key evidentiary features: existence of statistically significant relative risks, magnitude of observed associations, results from the most reliable exposure assessments, and evidence of convincing dose-response relationships (i.e., those monotonically increasing, with statistically significant trend tests). Results: Occupation as a pesticide applicator or pesticide application as a farming-related function was not associated with increasing the risk of colon or rectal cancer. Deficits of colon or rectal cancer were observed across most studies of pesticide applicators. After applying the WOE methodology to the epidemiologic studies of specific pesticide compounds and colon or rectal cancer, a number of pesticide-outcome pairs were identified and evaluated further based on positive statistical associations. Of these, only two-aldicarb and colon cancer and imazethapyr and proximal colon cancer-appears to warrant further discussion regarding a possible causal relationship, although the epidemiologic data are limited. For the remainder, a lack of a clear dose-response trend, inconsistencies in associations between exposure metrics and comparison groups, imprecise associations, variable participation rates for analyses of specific compounds, and the reliance upon data from one study (the AHS) limit interpretation regarding risk. Conclusion: The available epidemiologic evidence does not support a causal relationship between occupation as a pesticide applicator or specific pesticide exposures and colon or rectal cancer.  
Keywords: Occupational Health And Safety  
Keywords: Health & Safety Science Abstracts English. Date revised - 2012-09-01. Last updated - 2012-11-09. DOI - OB-6ff90632-a16a-4599-9d11mfgefd107; 17174901; 0340-0131; 1432-1246

35. Alias, Ashraf; Al-Zubaidy, Muna; Mousa, Yaareb, and Mohammad, Fouad. Plasma and Whole Brain Cholinesterase Activities in Three Wild Bird Species in Mosul, Iraq: in Vitro Inhibition by Insecticides. 2011 Sep; 4, (3): 144-n/a.   
Rec #: 6200  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: Plasma and whole brain cholinesterase activities in three wild bird species in Mosul, IRAQ: [In vitro] inhibition by insecticides Plasma and brain cholinesterase activities were determined in three wild bird species to assess their exposure to organophosphate and carbamate insecticides which are used in agriculture and public health. In the present study, we used an electrometric method for measurement of cholinesterase activities in the plasma and whole brain of three indigenous wild birds commonly found in northern Iraq. The birds used were apparently healthy adults of both sexes (8 birds/species, comprising 3-5 from each sex) of quail ([Coturnix coturnix]), collard dove ([Streptopelia decaocto]) and rock dove ([Columba livia gaddi]), which were captured in Mosul, Iraq. The mean respective cholinesterase activities (Î´ pH/30 minutes) in the plasma and whole brain of the birds were as follows: quail (0.96 and 0.29), collard dove (0.97and 0.82) and rock dove (1.44 and 1.42). We examined the potential susceptibility of the plasma or whole brain cholinesterases to inhibition by selected insecticides. The technique of [in vitro] cholinesterase inhibition for 10 minutes by the organophosphate insecticides dichlorvos, malathion and monocrotophos (0.5 and 1.0 ÎĽM) and the carbamate insecticide carbaryl (5 and10 ÎĽM) in the enzyme reaction mixtures showed significant inhibition of plasma and whole brain cholinesterase activities to various extents. The data further support and add to the reported cholinesterase activities determined electrometrically in wild birds in northern Iraq. The plasma and whole brain cholinesterases of the birds are highly susceptible to inhibition by organophosphate and carbamate insecticides as determined by the described electrometric method, and the results further suggest the usefulness of the method in biomonitoring wild bird cholinesterases. [PUBLICATION ABSTRACT]  
Keywords: Insecticides  
Keywords: Plasma  
Keywords: Birds  
Keywords: Proteases  
Keywords: Toxicology  
Keywords: Public Health And Safety English. Copyright - Copyright Versita Sep 2011. Document feature - References. Last updated - 2013-05-08. DOI - 2933203931; 76816762; 190329; NTXC; ICAVRSS\_NTXC\_v4n3d20110901\_102478V101020110022X

36. Alipour, A.; van Oostrom, Ajhhm; Van Wijk, J. P. H.; Verseyden, C.; Plokker, H. W. M.; Jukema, J. W.; Rabelink, A. J., and Cabezas, M. C. Mannose binding lectin deficiency and triglyceride-rich lipoprotein metabolism in normolipidemic subjects. 2009; 206, 444-450.   
Rec #: 11840  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Mannose binding lectin (MBL) is one of the three initiators of complement activation and is therefore closely linked to inflammation. MBL deficiency has been associated with the generation of atherosclerosis. Since atherosclerosis, the complement system and postprandial lipemia are linked to inflammation, we studied postprandial lipoprotein metabolism in MBL deficiency. An observational study was carried out in 107 volunteers (21% MBL deficient). Classical cardiovascular risk factors were not different between subjects with and without MBL deficiency. Oral fat loading tests in 8 MBL deficient and 14 MBL sufficient subjects showed similar postprandial triglyceride, free fatty acid, hydroxybutyric acid and complement component 3 concentrations. MBL deficient subjects had 2.4 times lower postprandial Sf > 400 (chylomicron)-apoB48 concentrations, but in contrast a 2-3.5 times increased Sf 60-400 (VLDL1-TG) and Sf 60-400-apoB100 response. MBL activity was inversely related to the postprandial Sf 60-400-TG increase. Despite lower postprandial Sf > 400-apoB48 concentrations, MBL deficient subjects show an accumulation of Sf 60-400 lipoproteins. (C) 2009 Elsevier Ireland Ltd. All rights reserved.  
Number of Volumes: 2  
ISI Document Delivery No.: 512XY <Go to ISI>://CCC:000271287000023

37. Aly, A. R. Investigation of Botanical and Microbial Agents of Biological Activity Against Certain Disease Vectors. samansour@hotmail.com (S.A. Mansour) was his advisor - email 8/26/13, response received////: 2011: (Publ in Part As 162546).   
Rec #: 1970  
Keywords: NO SOURCE  
Notes: Chemical of Concern: MLN

38. Anderson, P D; Sargeant, D, and Anderson, P D. Skagit-Samish Watershed Intensive Surface Water Sampling for Pesticides in Salmonid-Bearing Streams. Quality Assurance Project Plan. 2009.  
Rec #: 7920  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The Washington State Department of Ecology (Ecology) has conducted a surface water monitoring program for pesticides in salmonid habitat since 2003. This program has included weekly monitoring at 16 sites in five index watersheds statewide: Thornton Creek, Longfellow Creek, Lower Yakima River, Wenatchee River, and Entiat River. In 2008, the National Oceanic and Atmospheric Administration National Marine Fisheries Service (NOAA-Fisheries) released a biological opinion for three organophosphate pesticides: chlorpyrifos, diazinon, and malathion.  
Start Page: 32  
End Page: 32  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: Marine fisheries  
Keywords: Rivers  
Keywords: Marine  
Keywords: Surface water  
Keywords: Anadromous species  
Keywords: Quality assurance  
Keywords: Surface Water  
Keywords: Q1 01485:Species interactions: pests and control  
Keywords: Q5 01502:Methods and instruments  
Keywords: INE, USA, Washington  
Keywords: Watersheds  
Keywords: Creek  
Keywords: Streams  
Keywords: USA, Washington, Yakima R.  
Keywords: Ecology  
Keywords: Agricultural Chemicals  
Keywords: SW 3010:Identification of pollutants  
Keywords: Aqualine Abstracts; Water Resources Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; ASFA 1: Biological Sciences & Living Resources  
Keywords: Pesticides  
Keywords: Sampling  
Keywords: Salmonidae  
Keywords: Monitoring English. Date revised - 2011-11-01. Last updated - 2012-12-03. DOI - cc6033d2-4eb5-4d96-852fcsamfg201; 15947904; NO1100135

39. Anderson, Todd A.; Salice, Christopher J.; Erickson, Richard A.; McMurry, Scott T.; Cox, Stephen B., and Smith, Loren M. Effects of landuse and precipitation on pesticides and water quality in playa lakes of the southern high plains. 2013 Jun; 92, (1): 84-90.   
Rec #: 2260  
Keywords: FATE   
Notes: Chemical of Concern: MLN  
Abstract: Abstract Pesticide/ Wetland/ Toxicity benchmark http://www.sciencedirect.com/science/article/pii/S0045653513003627

40. Angelini, C.; Aluigi, M. G.; Sgro, M.; Girosi, L.; Gallus, L.; Tagliafierro, G.; Trombino, S., and Falugi, C. Thyroid-like Effects of Organophosphate Pesticides on Sea Urchin Metamorphosis are Mediated by Acetylcholine Receptors. Dipartimento di Biologia Sperimentale (DI.BI.S.A.A.) Universit di Genova, Italy//: 2004: 27-28(ABS).   
Rec #: 430  
Keywords: ABSTRACT  
Call Number: NO ABSTRACT (MLN)  
Notes: Chemical of Concern: MLN

41. Anjum, Reshma and Malik, Abdul. Evaluation of mutagenicity of wastewater in the vicinity of pesticide industry. 2013 Mar; 35, (2): 284-291.   
Rec #: 2210  
Keywords: EFFLUENT  
Notes: Chemical of Concern: MLN  
Abstract: Pesticide industrial wastewater samples were taken from the Chinhat industrial area nearby Lucknow city, India. GCÇôMS analysis revealed the presence of pesticides lindane, +\_-endosulfan, +\_-endosulfan, chlorpyriphos, monocrotophos, dimethoate and malathion. A pesticide mixture and wastewater extracts were studied to determine the mutagenicity by Ames Salmonella test, survival of DNA repair defective E. coli K-12 mutants and bacteriophage ++ systems. Wastewater samples were concentrated with XAD-resins as an adsorbent and liquidÇôliquid extraction procedure. The XAD concentrated sample exhibited maximum mutagenic activity in comparison to liquidÇôliquid extracted sample. TA98 strain was the most responsive strain for both test samples with (+S9) and without (êÆS9) metabolic activation, while other strains exhibited weak response. A significant decline of DNA repair defective E. coli K-12 mutants, bacteriophage ++ was observed with test samples in the survival. The intracellular damage was highest when treated with XAD concentrated sample as compared to liquidÇôliquid extract after 6 h treatment. Salmonella mutagenicity test/ Industrial wastewater/ DNA repair defective mutants/ Genotoxicity http://www.sciencedirect.com/science/article/pii/S1382668912002141

42. Anonymous. Acyclic Acids; Studies From R.l. Dasilva Et Al Provide New Data on Acyclic Acids. 2010 Dec 17: 3237.   
Rec #: 6730  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: 2010 DEC 17 - (VerticalNews.com) -- "An extraction method based on matrix solid-phase dispersion was developed to determine pirimicarb, methyl parathion, malathion, procymidone, alpha-endosulfan and beta-endosulfan in lettuce using gas chromatography-mass spectrometry," researchers in Sao Cristovao, Brazil report.  
Keywords: Ecology  
Keywords: Energy  
Keywords: Pesticides  
Keywords: Mass spectrometry English. Copyright - (c)Copyright 2010, Energy & Ecology Business via NewsRx.com. Last updated - 2011-06-14. DOI - 2207007661; 56007721; 85218; EYEB; NWRX20101208146E0930

43. Anonymous. Apoptosis; New Findings From C.l.r. Battaglia and Co-Authors in the Area of Apoptosis Published. 2010 Jun 4: 690.   
Rec #: 6970  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to a study from the United States, Lindane, malathion, and piperonyl butoxide were cultured singly or as mixtures with murine splenocytes to evaluate changes in cell death and caused cytotoxicity in a concentration-and time-dependent manner.  
Keywords: Ecology  
Keywords: Apoptosis  
Keywords: Medical research  
Keywords: United States--US  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2010, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2011-06-15. DOI - 2042078851; 52324161; 85211; EEVC; NWRX2010052613011416. SubjectsTermNotLitGenreText - United States--US

44. ---. Bioanalytical Chemistry; Studies From La Laguna University Describe New Findings in Bioanalytical Chemistry. 2010 Apr 15: 53.   
Rec #: 4230  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to a study from Spain, A modified version of the QuEChERS method has been developed for the determination of a group of ten organophosphorus pesticides (i.e. ethoprofos, dimethoate, diazinon, malaoxon, chlorpyrifos-methyl, fenitrothion, malathion, chlorpyrifos, fenamiphos and phosmet) and one thiadiazine pesticide (buprofezin) in three different types of soils (forestal, ornamental and agricultural).  
Keywords: Agriculture  
Keywords: Soils English. Copyright - (c)Copyright 2010, Agriculture Business Week via NewsRx.com. Last updated - 2011-06-15. DOI - 2003627671; 51585141; 85201; AGBW; NWRX2010040712A9F2F2

45. ---. Ecotoxicology; New Ecotoxicology Study Results From C.l. Achiorno Et Al Described. 2009 Jul 10: 517.   
Rec #: 7520  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The free-living adults reproduce in freshwater environments, where preparasitic larvae undergo development, researchers in Lujan, Argentina report. Since malathion is an insecticide used in the distribution area of Chordodes nobilii, the aim of this study is to evaluate the effect of malathion concentrations which might be expected in the environment on preparasitic stages of this species.  
Keywords: Surface water  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2009, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2011-06-15. DOI - 1771377811; 46389671; 85211; EEVC; NWRX20090701104FB794

46. ---. Environmental Biology; Research on Environmental Biology Published by B. Gulfer Et Al. 2009 Oct 9: 254.   
Rec #: 7360  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: 2009 OCT 9 - (VerticalNews.com) -- The effects of 0.001, 0.01, 0.1 and 0.5 ppm concentrations of malathion, an organophosphorus insecticide, viewed over the course of the experiment, on adult emergence and sex ratios of emerging adults of the parasitic wasp, Pimpla turionellae L. Hymenoptera:  
Keywords: Studies  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2009, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2011-06-15. DOI - 1868911051; 48727341; 85211; EEVC; NWRX20090930115BACD5

47. ---. Environmental Chemistry; New Findings Reported From Virginia Polytechnic Institute Describe Advances in Environmental Chemistry. 2009 Feb 20: 253.   
Rec #: 7790  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to a study from the United States, We investigated the effects of embryonic exposure to the widely used organophosphate malathion (15-600 mu g/L) on the early development and latent susceptibility of pickerel frog ( Rana palustris) tadpoles to the trematode parasite Echinostoma trivolvis.  
Keywords: Medical research  
Keywords: Studies  
Keywords: United States--US  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2009, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2011-06-15. DOI - 1643361201; 41877041; 85211; EEVC; NWRX200902110EFA9DF4. SubjectsTermNotLitGenreText - United States--US

48. ---. Environmental Monitoring; Reports Outline Environmental Monitoring Research From Bidhan Chandra Krishi Viswavidyalaya. 2009 Oct 23: 231.   
Rec #: 7340  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to recent research from Nadia, India, An investigation was conducted from 2001 to 2005 for determining the residual concentration of five pesticides, viz., total-HCH, total-DDT, total-Endosulfan, Dimethoate and Malathion in fish samples collected from various points of the river Ganga.  
Keywords: Environmental monitoring  
Keywords: Pesticides  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2009, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2011-06-15. DOI - 1878862831; 48965761; 85211; EEVC; NWRX200910141175EEAA

49. ---. Environmental Research; Data on Environmental Research Discussed by Researchers at University of Turin. 2009 Feb 20: 119.   
Rec #: 7780  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to recent research published in the Journal of Environmental Science and Health Part B - Pesticides Food Contaminants and Agricultural Wastes, The dissipation of the fungicides captan, cyprodinil, fludioxonil, dithianon, and tebuconazole and of the insecticides chlorpyrifos, fenitrothion, and malathion was studied, following a single treatment of different cultivars of pears, apples, and peaches.  
Keywords: Studies  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2009, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2011-06-15. DOI - 1643360111; 41877041; 85211; EEVC; NWRX200902110EFA9CB7

50. ---. Environmental Research; Reports From National Autonomous University Highlight Recent Research in Environmental Research. 2009 Mar 27: 609.   
Rec #: 7710  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Particularly, studies about organophosphorus pesticides (OPPs; i.e. chlorpyrifos and malathion) toxicity are of great importance due to their intensive use in agricultural activities in Xochimilco, scientists writing in the journal Chemosphere report. [...] the aim of this study was to evaluate under controlled conditions the toxicity of chlorpyrifos (CPF) and malathion (MIT) on embryos and larvae (stage 44 and 54) of A. mexicanum.  
Keywords: Ecology  
Keywords: Studies  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2009, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2011-06-15. DOI - 1662996141; 42224141; 85211; EEVC; NWRX200903180F28E820

51. ---. Environmental Research; Studies From S. Xie Et Al Add New Findings in the Area of Environmental Research. 2009 Feb 28: 132.   
Rec #: 7760  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to recent research from Beijing, People's Republic of China, To enhance the removal efficiency of malathion in the wastewater from organophosphate pesticide mill, a bacterium, Acinetobacter johnsonii MA19, that could degrade malathion with cometabolism was isolated from malathion-polluted soil samples using enrichment culture techniques.  
Keywords: Ecology  
Keywords: Bacteria  
Keywords: Bioremediation  
Keywords: Microbiology  
Keywords: Research  
Keywords: Science  
Keywords: China  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2009, Ecology, Environment & Conservation Business via NewsRx.com. Last updated - 2011-06-15. DOI - 1647239381; 41943511; 85212; EECB; NWRX200902180F048A3F. SubjectsTermNotLitGenreText - China

52. ---. Letter: Erring on the Side of Caution. 2009 Jun 12: 8.   
Rec #: 7570  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The term OP, however, is often used to describe the whole family of organophosphorus compounds, in particular in the Department of Health paper, 'Organophosphate Poisoning' by Timothy Marrs, also includes phosonates, phosphinates (eg glufosinate), phosphorothioates (eg Diazinon) and phosphorodithioates (eg Malathion) (quoted from Pharmac Ther Vol 58 p51-66).  
Keywords: Agriculture English. Copyright - (Copyright : 2009 CMP Information Ltd.). Last updated - 2012-11-02. DOI - 1747191671; 43990061; 51283; FRMG; CMPI200906161017E060

53. Anonymous. Pesticides; New Pesticides Study Findings Have Been Reported From N. Aslan Et Al. 2011 Sep 30: 345.   
Rec #: 3160  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to the authors of recent research from Ankara, Turkey, In this study, a method is described for the determination of malathion (O,O-dimethyl-S-(1,2-carbethoxyethyl) phosphorodithioate) and its metabolite malaoxon O,O-dimethyl-S-(1,2-carbethoxyethyl) phosphorothioate in cherries.  
Keywords: Chromatography  
Keywords: Research  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2011, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2011-09-21. DOI - 2463610141; 64422171; 85211; EEVC; NWRX20110921167FADE1

54. ---. Pesticides; Reports From Faculty of Science Advance Knowledge in Pesticides. 2011 Jun 2: 193.   
Rec #: 6290  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to recent research from Kuala Terengganu, Malaysia, In this batch study, the adsorption of malathion by using granular activated carbon with different parameters due to the particle size, dosage of carbons, as well as the initial concentration of malathion was investigated.  
Keywords: Agriculture  
Keywords: Water treatment  
Keywords: Pesticides  
Keywords: Adsorption  
Keywords: Science English. Copyright - (c)Copyright 2011, Agriculture Week via NewsRx.com. Last updated - 2011-06-15. DOI - 2357148241; 61696751; 85202; AGCW; NWRX201105251592DAF8

55. Anonymous. Pesticides; Research on Pesticides Discussed by Scientists at University Federal of Sergipe. 2011 Feb 10: 231.   
Rec #: 6580  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to recent research published in the Journal of Environmental Science and Health Part B, Pesticides, Food Contaminants, and Agricultural Wastes, An extraction method based on matrix solid-phase dispersion was developed to determine pirimicarb, methyl parathion, malathion, procymidone, alpha-endosulfan and beta-endosulfan in lettuce using gas chromatography-mass spectrometry.  
Keywords: Agriculture  
Keywords: Mass spectrometry English. Copyright - (c)Copyright 2011, Agriculture Week via NewsRx.com. Last updated - 2011-06-15. DOI - 2255117101; 57860881; 85202; AGCW; NWRX2011020214CB08EE

56. ---. Science and Technology; Data From Emory University Advance Knowledge in Science and Technology. 2010 Feb 12: 262.   
Rec #: 7130  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to recent research from the United States, Four pyrethroid (permethrin, cyfluthrin, cypermethrin, deltamethrin) and 3 organophosphorus (chlorpyrifos, diazinon, malathion) pesticides were measured in 4 days of 24 h duplicate diet samples collected from 12 Atlanta adults over two cycles (2005-2006).  
Keywords: Ecology  
Keywords: Environmental science  
Keywords: United States--US  
Keywords: Environmental protection  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2010, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2011-06-15. DOI - 1953925381; 50604821; 85211; EEVC; NWRX20100203122F7C1E. SubjectsTermNotLitGenreText - United States--US

57. ---. Science; Reports From I. Dusfour and Co-Researchers Add New Data to Research in Science . 2010 Mar 11: 24.   
Rec #: 7080  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: [...] the two populations collected at the edge of sugarcane fields (CC and BV) exhibited the highest tolerance to malathion.  
Keywords: Agriculture  
Keywords: Mortality  
Keywords: Science English. Copyright - (c)Copyright 2010, Journal of Farming via NewsRx.com. Last updated - 2011-06-14. DOI - 1975001851; 51050561; 85235; FRMJ; NWRX201003031261DC6F

58. Anonymous. Ultrasonics Sonochemistry; New Data From China Agricultural University Illuminate Research in Ultrasonics Sonochemistry. 2010 Mar 4: 17.   
Rec #: 7100  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: According to recent research from Beijing, People's Republic of China, Apple juice (13 degrees Brix) spiked with malathion and chlorpyrifos (2-3 mg l(-1) of each compound) was treated under different ultrasonic irradiations. ultrasonic treatment was effective for the degradation of malathion and chlorpyrifos in apple juice, and the output power and treatment time significantly influenced the degradation of both pesticides (p < 0.05).  
Keywords: Agriculture  
Keywords: Apples  
Keywords: Food science  
Keywords: Mass spectrometry  
Keywords: Research  
Keywords: China English. Copyright - (c)Copyright 2010, Agriculture Week via NewsRx.com. Last updated - 2011-06-15. DOI - 1969432521; 50937911; 85202; AGCW; NWRX2010022412542CC9. SubjectsTermNotLitGenreText - China

59. Anonymous. Waste Management Research; Research From S. Chatterjee Et Al Broadens Understanding of Waste Management Research. 2010 Mar 5: 332.   
Rec #: 7090  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Hydrogen ion concentration does not influence the adsorption of malathion by ROB which follows Langmuir-Freundlich dual equilibrium isotherm model (r(2) = 0.998).  
Keywords: Adsorption  
Keywords: Aqueous solutions  
Keywords: Hazardous substances  
Keywords: Environmental Studies English. Copyright - (c)Copyright 2010, Ecology, Environment & Conservation via NewsRx.com. Last updated - 2011-06-15. DOI - 1969444131; 50938001; 85211; EEVC; NWRX20100224125430BF

60. Ansari, Mohd Ikram; Malik, Abdul, and Ansari, Mohd Ikram. Genotoxicity of Wastewaters Used for Irrigation of Food Crops. 2009 Apr; 24, (2): 103-115.   
Rec #: 7700  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In most towns of India, wastewater coming from both industrial and domestic sources and without any treatment is used to irrigate the agricultural crops. This practice has been polluting the soil, and pollutants could possibly reach the food chain. For the above reasons, the wastewaters of Ghaziabad City (India), which is used for irrigation, were sampled (at two different sites) and monitored for the presence of genotoxic agents from January 2005 to June 2007. Gas chromatographic analysis showed the presence of certain OC (DDE, DDT, Dieldrin, Aldrin, and Endosulfan) and OP (Dimethoate, Malathion, Methlyparathion, and Chlorpyrifos) pesticides in both the sampling sites. Wastewater samples were concentrated using XAD resins (XAD-4 and XAD-8) and liquid-liquid extraction procedures, and the extracts were assayed for genotoxic potential by Ames Salmonella/microsome test, DNA repair defective mutants, and bacteriophage systems. The test samples exhibited significant mutagenicity with TA98, TA97a, and TA100 strains with the probable role of contaminating pesticides in the wastewater. However, XAD-concentrated samples were more mutagenic in both sites as compared to liquid-liquid-extracted samples. The damage in the DNA repair defective mutants in the presence of XAD-concentrated water samples were also found to be higher to that of liquid-liquid-extracted water samples at the dose level of 20 L/mL culture. All the mutants invariably exhibited significant decline in their colony-forming units as compared to their isogenic wild-type counterparts. The survival was decreased by 81.7 and 75.5% in polA- strain in site I, and 76.0 and 73.5% in site II in polA- under the same experimental conditions after 6 h of treatment with XAD-concentrated and liquid-liquid-extracted samples, respectively. A significant decrease in the survival of bacteriophage was also observed when treated with the test samples.  
Keywords: Phages  
Keywords: Food chains  
Keywords: Water Sampling  
Keywords: Aldrin  
Keywords: Crops  
Keywords: Malathion  
Keywords: India  
Keywords: Mutants  
Keywords: Soil  
Keywords: Agricultural Chemicals  
Keywords: Insecticides  
Keywords: Nitrous oxide  
Keywords: Testing Procedures  
Keywords: Resins  
Keywords: Microsomes  
Keywords: Crop  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Dieldrin  
Keywords: DDE  
Keywords: Irrigation  
Keywords: Microbiology Abstracts B: Bacteriology; Virology & AIDS Abstracts; Toxicology Abstracts; Pollution Abstracts; Water Resources Abstracts; Aqualine Abstracts  
Keywords: Endosulfan  
Keywords: Chlorpyrifos  
Keywords: SW 1030:Use of water of impaired quality  
Keywords: Water Pollution Effects  
Keywords: DDT  
Keywords: Dimethoate  
Keywords: survival  
Keywords: Water sampling  
Keywords: Water Analysis  
Keywords: Survival  
Keywords: Pollutants  
Keywords: Sampling  
Keywords: J 02430:Symbiosis, Antibiosis & Phages  
Keywords: V 22310:Genetics, Taxonomy & Structure  
Keywords: X 24330:Agrochemicals  
Keywords: Urban areas  
Keywords: Mutagenicity  
Keywords: Wastewater Irrigation  
Keywords: Genotoxicity  
Keywords: AQ 00008:Effects of Pollution  
Keywords: Toxicity  
Keywords: DNA repair  
Keywords: Defective mutant  
Keywords: Pesticides  
Keywords: DNA  
Keywords: Waste water  
Keywords: Salmonella  
Keywords: dimethoate English. Date revised - 2009-03-01. Last updated - 2011-12-14. DOI - MD-0009453149; 9094569; 1520-4081; 1522-7278. SubjectsTermNotLitGenreText - Phages; Mutagenicity; Resins; Microsomes; Crop; Food chains; Dieldrin; DDE; Aldrin; Genotoxicity; Irrigation; Survival; DNA repair; Malathion; Endosulfan; Defective mutant; Chlorpyrifos; Soil; Pollutants; DDT; Pesticides; Sampling; Dimethoate; Waste water; Water sampling; Crops; Mutants; Insecticides; Nitrous oxide; DNA; survival; dimethoate; Urban areas; Testing Procedures; Agricultural Chemicals; Water Analysis; Wastewater Irrigation; Water Pollution Effects; Water Sampling; Toxicity; Salmonella; India

61. Appenzeller, Brice M. R. and Tsatsakis, Aristidis M. Hair analysis for biomonitoring of environmental and occupational exposure to organic pollutants: State of the art, critical review and future needs: Advances on biomonitoring and exposure assessment for pesticides and persistent organic pollutants. 2012 Apr 25-; 210, (2): 119-140.   
Rec #: 690  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: This paper presents the current state of the art in human hair analysis for the detection of organic pollutants associated with environmental and occupational exposure. The different chemical classes are reviewed with a special focus set on compounds that were only recently investigated. The importance of methods sensitivity and particularly the influence of this parameter on the results presented in previous publications is highlighted. This report also investigates the relevance of hair analysis as an indicator of subjectsÇÖ level of exposure and underlines limitations that are still associated with this matrix. This study also presents a critical assessment of some specific aspects presented in the literature as well as future needs to strengthen the position of hair as a relevant biomarker of exposure to be used in epidemiological studies. Hair analysis/ Human biomonitoring/ Organic pollutants/ Biomarker of exposure http://www.sciencedirect.com/science/article/pii/S0378427411015967

62. aran, Elisa; Fern+índez, M+ nica; Barbieri, Pierluigi; Font, Guillermina, and Ruiz, Mar+ a Jos+ . Effects of four carbamate compounds on antioxidant parameters. 2009 Mar; 72, (3): 922-930.   
Rec #: 940  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: The effect of four carbamates, aldicarb and its metabolites (aldicarb sulfone and aldicarb sulfoxide) and propoxur on glutathione content and the activity of the enzymes involved in the sulfur-redox cycle in the mammalian cellular model CHO-K1 cells after 24-h exposure were determined. Carbamate exposure resulted in a depletion of intracellular reduced glutathione (GSH) content, no change was observed in oxidized glutathione (GSSG) and a decrease in GSH/GSSG ratio was detected. After carbamates exposition a GSH/GSSG decreases in ranged from 12.44% to 21.35% of control was observed. Depletion of GSH levels was accompanied by the induction of glutathione reductase (GR) after 24 h exposure with each of the four carbamates to CHO-K1 cells. After aldicarb sulfone, aldicarb sulfoxide, and propoxur exposure, glutathione peroxidase (GPx) activity increased in CHO-K1 cells by 198%, 32%, and 228% of control, respectively. After aldicarb sulfone and propoxur exposure, glutathione transferase (GST) activities increased by 49% and 230% of control, respectively. Due to the role played by GSH in preventing cytotoxicity via free-radical scavenging, results obtained suggest that high concentrations of aldicarb sulfone and propoxur closely resembling oxidative stress in CHO-K1 cells. Carbamate pesticides/ CHO-K1 cells/ Glutathione redox status/ Antioxidant enzymes http://www.sciencedirect.com/science/article/pii/S0147651308000213

63. Arcury, Thomas a; Grzywacz, Joseph G; Isom, Scott; Whalley, Lara E; Vallejos, Quirina M; Chen, Haiying; Galvã¡N, Leonardo; Barr, Dana B, and Quandt, Sara a. Seasonal Variation in the Measurement of Urinary Pesticide Metabolites Among Latino Farmworkers in Eastern North Carolina. 2009 Oct-2009 Dec 31; 15, (4): 339-50.   
Rec #: 7390  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This analysis describes the detection of urinary pesticide metabolites for Latino farmworkers across the agricultural season. Two hundred and eighty four farmworkers were recruited from 44 camps in eastern North Carolina in 2007. Data were collected at one month intervals for a total of 939 data points. The OP insecticide metabolites 3,5,6-trichloropyridinol (46.2%), malathion dicarboxylic acid (27.7%), and para-nitrophenol (97.4%); the pyrethroid metabolite 3-phenoxybenzoic acid (56.4%); and the herbicides 2,4-D (68.1%), acetochlor (29.2%), and metolachlor (16.9%) were found in sizable percentages of the samples. The percentage of farmworkers for whom metabolites were detected varied across the agricultural season. None of the farmworker characteristics were significantly associated with the detection of any pesticide metabolite. Seasonality overrides the effects of other farmworker characteristics in predicting detection of pesticide urinary metabolites. Future research needs to collect multiple exposure measures at frequent intervals over an extended period to characterize factors associated with exposure. [PUBLICATION ABSTRACT]  
Keywords: Agriculture  
Keywords: Young Adult  
Keywords: Agricultural production  
Keywords: Humans  
Keywords: Pesticides -- urine  
Keywords: Metabolites  
Keywords: Environmental Studies  
Keywords: Hispanic Americans  
Keywords: Risk factors  
Keywords: Adult  
Keywords: Adolescent  
Keywords: Farmworkers  
Keywords: Male  
Keywords: Camps  
Keywords: Data collection  
Keywords: Counties  
Keywords: Employment security  
Keywords: Longitudinal Studies  
Keywords: Hispanics  
Keywords: Environmental Monitoring  
Keywords: Pesticides -- metabolism  
Keywords: Passports & visas  
Keywords: Pesticides  
Keywords: Seasons  
Keywords: North Carolina  
Keywords: Occupational Exposure -- analysis  
Keywords: Female  
Keywords: Transients & Migrants English. Copyright - Copyright Hamilton Hardy Publishing Oct-Dec 2009. Document feature - Tables; Graphs; References. Last updated - 2013-06-01. DOI - 1885789711; 49127991; 49933; NJOH; 19886344; INNNNJOH0000334749. References. 1. Villarejo D. The health of U.S. hired farm workers. Annu Rev Public Health. 2003;24:175-193. 2. Calvert GM, Karnik J, Mehler L, et al. Acute pesticide poisoning among agricultural workers in the United States, 1998-2005. Am J Ind Med. 2008;51:833-898. 3. McCauley LA, Anger KA, Keifer M, Langley R, Robson MG, Rohlman D. Studying health outcomes in farmworker populations exposed to pesticides. Environ Health Perspect. 2006; 114:953-960. 4. Quandt S, HernÃ¡ndez-Valero MA, Grzywacz JG, Hovey JD, Gonzales M, Arcury TA. Workplace, household, and personal predictors of pesticide exposure and health outcomes for farmworkers. Environ Health Perspect. 2006;114:943-952. 5. Fenske RA, Curl CL, Kissel JC. The effect of the 14-day agricultural restricted entry interval on azinphosmethyl exposures in a group of apple thinners in Washington State. Regul Toxicol Pharmacol. 2003;38: 91-97. 6. Coronado GD, Vigoren EM, Thompson B, Griffith WC, Faustman EM. Organophosphate pesticide exposure and work in pome fruit: evidence for the take-home pesticide pathway. Environ Health Perspect. 2006;114:999-1006. 7. Salvatore AL, Bradman A, Castornia R, et al. Occupational behaviors and farmworkers' pesticide exposure: findings from a study in Monterey County, California. Am J Ind Med. 2008; 51:782-794. 8. Arcury TA, Quandt SA, Rao P, et al. Organophosphate pesticide exposure in farmworker family members in western North Carolina and Virginia: Case comparisons. Hum Organ. 2005;64:40- 51. 9. Quandt SA, Arcury TA, Rao P, et al. Agricultural and residential pesticides in wipe samples from farmworker family residences in North Carolina. Environ Health Perspect. 2004;112:382-387. 10. Arcury TA, Grzywacz JG, Barr DB, Tapia J, Chen H, Quandt SA. Pesticide urinary metabolite levels of children in eastern North Carolina farmworker households. Environ Health Perspect. 2007;115:1254-1260. 11. Bradman A, Eskenazi B, Barr DB, et al. Organophosphate urinary metabolite levels during pregnancy and after delivery in women living in an agricultural community. Environ Health Perspect. 2005;113:1802-1807. 12. Eskenazi B, Marks AR, Bradman A, et al. Organophosphate pesticide exposure and neurodevelopment in young Mexican- American children. Environ Health Perspect. 2007;115:792-798. 13. Thompson B, Coronado GD, Vigoren EM, et al. Oara NiÃ±os Saludables: A community intervention trial to reduce organophosphate pesticide exposure in children of farmworkers. Environ Health Perspect. 2008;116:687-694. 14. Barr DB, Bravo R, Weerasekera G, et al. Concentrations of dialkylphosphate metabolites of organophosphorus pesticides in the US population. Environ Health Perspect. 2004;112:186- 200. 15. Olsson AO, Baker SE, Nguyen JV, et al. A liquid chromatography- tandem mass spectrometry multiresidue method for quantification of specific metabolites of organophosphorus pesticides, synthetic pyrethroids, selected herbicides, and DEET in human urine. Anal Chem. 2004;76:2453-2461. 16. Arcury TA, Grzywacz JG, Chen H, et al. Variation across the agricultural season in organophosphorus pesticide urinary metabolite levels for Latino farmworkers in eastern North Carolina: project design and descriptive results. Am J Ind Med. 2009; 52:539-550. 17. Alavanja MC, Sandler DP, McDonnell CJ, et al. Characteristics of pesticide use in a pesticide applicator cohort: The Agricultural Health Study. Environ Res. 1999;80(2 Pt 1):172-179. 18. Southern PS, Sorenson CE. Chapter 5. Insect Control. In: 2008 North Carolina Agricultural Chemicals Manual. Raleigh, NC: College of Agriculture and Life Sciences, NC State University; 2008. 19. 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AMERICAN JOURNAL OF INDUSTRIAL MEDICINE, 52. 7 (2009): 539-550. WILEY-LISS. Arcury, Thomas A.; Grzywacz, Joseph G.; Barr, Dana B.; Tapia, Janeth; et al. Pesticide urinary metabolite levels of children in eastern North Carolina farmworker households. ENVIRONMENTAL HEALTH PERSPECTIVES, 115. 8 (2007): 1254-1260. US DEPT HEALTH HUMAN SCIENCES PUBLIC HEALTH SCIENCE. Barr, Dana B.; Bravo, Roberto; Weerasekera, Gayanga; Caltabiano, Lisa M.; et al. Concentrations of dialkyl phosphate metabolites of organophosphorus pesticides in the U.S. population. Environmental Health Perspectives, 112. 2 (2004): 186-200. Public Health Services, US Dept of Health and Human Services. Bradman, A; Eskenazi, B; Barr, D B; Bravo, R; et al. Organophosphate urinary metabolite levels during pregnancy and after delivery in women living in an agricultural community. ENVIRONMENTAL HEALTH PERSPECTIVES, 113. 12 (2005): 1802-1807. US DEPT HEALTH HUMAN SCIENCES PUBLIC HEALTH SCIENCE. 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Thompson, Beti; Coronado, Gloria D.; Vigoren, Eric M.; Griffith, William C.; et al. Para Ninos Saludables: A community intervention trial to reduce organophosphate pesticide exposure in children of farmworkers. ENVIRONMENTAL HEALTH PERSPECTIVES, 116. 5 (2008): 687-694. US DEPT HEALTH HUMAN SCIENCES PUBLIC HEALTH SCIENCE. Villarejo, D. The health of US hired farm workers. ANNUAL REVIEW OF PUBLIC HEALTH, 24. (2003): 175-193. ANNUAL REVIEWS. XIAOFEI ZHANG; DRIVER, Jeffrey H.; YANHONG LI; ROSS, John H.; et al. Dialkylphosphates (DAPs) in Fruits and Vegetables May Confound Biomonitoring in Organophosphorus Insecticide Exposure and Risk Assessment. Journal of agricultural and food chemistry (Print), 56. 22 (2008): 10638-10645. American Chemical Society

64. Areechon, N. Acute and Subchronic Toxicity of Malathion in Channel Catfish. 1988; 49, (2): 274-(ABS).   
Rec #: 1980  
Keywords: ABSTRACT  
Call Number: NO ABSTRACT (MLN)  
Notes: Chemical of Concern: MLN

65. Aristizabal, L. F.; Ospina, K. A.; Vallejo, U. A.; Henao, E. R.; Salgado, M., and Arthurs, S. P. ENTOMOFAUNA ASSOCIATED WITH HELICONIA SPP. (ZINGIBERALES: HELICONIACEAE) GROWN IN THE CENTRAL AREA OF COLOMBIA. 2013; 96, 112-119.   
Rec #: 11950  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: We conducted a survey of insects and pest management practices on 40 farms growing Heliconia spp. and other Zingiberales in the central coffee region of Colombia in 2006 and 2007. Most farmers (87%) were concerned about insect pests in the plantation and 90% used broad-spectrum insecticides (chlorpyrifos, carbofuran, acephate and malathion) at least monthly. Fewer (approximately one third) used biological or cultural control practices. In total insects from 13 orders and 99 families were collected from Heliconia farms. The most abundant orders were Diptera (23 families), Hemiptera (22 families), Hymenoptera (14 families), Coleoptera (13 families), and Lepidoptera (7 families). The most common phytophagous species were hispine beetles (Chrysomelidae), scales (Coccidae: Ceroplastes sp., Saissetia sp.), leaf-hoppers (Cicadellidae), stinkbugs (Pentatomidae), squash bugs (Coreidae) and leaf cutting ants (Atta and Acromyrmex spp.). Other insects such as Metamasius and Pandeleteius weevils were found on the rhizome or pseudostem. Beneficial insects collected included several predatory families (Coccinelidae, Chrysopidae and Reduviidae) but only low numbers of parasitoids (Ichneumonidae, Braconidae, Chalcididae and Stephanidae). A range of insects occurred in empty and water-filled bracts of inflorescences notably flower feeding or detritivorous Diptera (Chironomidae, Drosophilidae, Richardiidae, Syrphidae, Tephritidae and Ulidiidae). Our survey suggests many new insect host associations for Heliconia. The use of broad-spectrum insecticides may not be the best long term strategy for insect pest management in Heliconia due to adverse risks to human and environmental health.  
Number of Volumes: 1  
ISI Document Delivery No.: 123HO <Go to ISI>://CCC:000317379200014

66. Asensio-Ramos, M; Hernandez-Borges, J; Borges-Miquel, T M; Rodriguez-Delgado, Ma, and Asensio-Ramos, M. Evaluation of Multi-Walled Carbon Nanotubes as Solid-Phase Extraction Adsorbents of Pesticides From Agricultural, Ornamental and Forestal Soils. 2009 Aug; 647, (2): 167-176.   
Rec #: 4780  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A new, simple and cost-effective method based on the use of multi-walled carbon nanotubes (MWCNTs) as solid-phase extraction stationary phases is proposed for the determination of a group of seven organophosphorus pesticides (i.e. ethoprophos, diazinon, chlorpyriphos-methyl, fenitrothion, malathion, chlorpyriphos and phosmet) and one thiadiazine (buprofezin) in different kinds of soil samples (forestal, ornamental and agricultural) using gas chromatography with nitrogen phosphorus detection. Soils were first ultrasound extracted with 10 mL 1:1 methanol/acetonitrile (v/v) and the evaporated extract redissolved in 20 mL water (pH 6.0) was passed through 100 mg of MWCNTs of 10-15 nm o.d., 2-6 nm i.d. and 0.1-10 km length. Elution was carried out with 20 mL dichloromethane. The method was validated in terms of linearity, precision, recovery, accuracy and selectivity. Matrix-matched calibration was carried out for each type of soil since statistical differences between the calibration curves constructed in pure solvent and in the reconstituted soil extract were found for most of the pesticides under study. Recovery values of spiked samples ranged between 54 and 91% for the three types of soils (limits of detection (LODs) between 2.97 and 9.49 ng g super(-1)), except for chlorpyrifos, chlorpyrifos-methyl and buprofezin which ranged between 12 and 54% (LODs between 3.14 and 72.4 ng g super(-1)), which are the pesticides with the highest soil organic carbon sorption coefficient (K sub(OC)) values. Using a one-sample test (Student's t-test) with fortified samples at two concentration levels in each type of soil, no significant differences were observed between the real and the experimental values (accuracy percentages ranged between 87 and 117%). It is the first time that the adsorptive potential of MWCNTs for the extraction of organophosphorus pesticides from soils is investigated.  
Keywords: Sorption  
Keywords: P 5000:LAND POLLUTION  
Keywords: Organic carbon  
Keywords: Phosphorus  
Keywords: Solvents  
Keywords: Malathion  
Keywords: Soil  
Keywords: Chlorpyrifos  
Keywords: Carbon  
Keywords: Gas chromatography  
Keywords: Economics  
Keywords: Pesticides  
Keywords: Adsorption  
Keywords: Pollution Abstracts  
Keywords: Diazinon  
Keywords: pH  
Keywords: nanotechnology  
Keywords: Nitrogen English. Date revised - 2009-08-01. Last updated - 2012-03-29. DOI - MD-0010125877; 10258726; 0003-2670. SubjectsTermNotLitGenreText - Sorption; Organic carbon; Solvents; Phosphorus; Malathion; Soil; Chlorpyrifos; Carbon; Gas chromatography; Pesticides; Economics; Adsorption; Diazinon; pH; nanotechnology; Nitrogen

67. Ashby, J. and Tennant, R. W. Definitive Relationships Among Chemical Structure, Carcinogenicity and Mutagenicity for 301 Chemicals Tested by the U.S. NTP. STN Cent. Toxicol. Lab., ICI, Cheshire, SK10 4TJ, UK////: 1991; 257, (3): 229-306.   
Rec #: 10  
Keywords: MODELING,REFS CHECKED  
Call Number: NO MODELING (12DPA,13DPE,ADC,AMSV,ASCN,AZ,CMPH,CQTC,CTN,CaCY,Captan,DCB,DCF,DDVP,DLMEN,DMT,DMZ,DPDP,DZ,EGL,FUR,MBTZ,MEL,MLN,MLO,MP,OXTH,PCP,PNB,PPB,PPCP,PPCP2011,RLIM,RTN,SFL,TTC,TTCH,TVP,Ziram), NO REFS CHECKED (12DPA,13DPE,ADC,AMSV,ASCN,AZ,CMPH,CQTC,CTN,CaCY,Captan,DCB,DCF,DDVP,DLMEN,DMT,DMZ,DPDP,DZ,EGL,FUR,MBTZ,MEL,MLN,MLO,MP,OXTH,PCP,PNB,PPB,PPCP,PPCP2011,RLIM,RTN,SFL,TTC,TTCH,TVP,Ziram)  
Notes: Chemical of Concern: 12DPA,13DPE,24DC,3CE,4CE,ADC,AMSV,AN,AND,ANZ,ASCN,AZ,BNZ,BPA,CHD,CMPH,CQTC,CTN,CaCY,Captan,DCB,DCF,DDT,DDVP,DHD,DLD,DLMEN,DMT,DMZ,DPDP,DXN,DZ,EAC,EDB,EGL,EN,EPRN,FMU,FNTH,FUR,HCCH,HPT,ISO,MBTZ,MEL,MLN,MLO,MP,MXC,OXTH,PBDE,PCL,PCP,PHTH,PL,PNB,PPB,PPCP,PPCP2011,PPHD,PRN,RLIM,RTN,SFL,TCDD,TOL,TPTH,TTC,TTCH,TVP,TXP,Ziram

68. Aslan, N and Aslan, N. Analysis of Pesticide Residues in Cherries From Afyonkarahisar, Turkey. 2011; 20, (8): 2002-2006.   
Rec #: 3710  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this study, a method is described for the determination of malathion (O,O-dimethyl-S-(1,2-carbethoxyethyl) phosphorodithioate) and its metabolite malaoxon (O,O-dimethyl-S-(1,2-carbethoxyethyl) phosphorothioate in cherries. Cherries were extracted in methanol and extract was subjected to a liquid-liquid partitioning and column cleanup to remove the organic coextractives prior to analysis by high performance liquid chromatography (HPLC). The recoveries ( plus or minus standard deviations) from cherry fortified with malathion and malaoxon (5-20 mu g/g) were also determined. The method was used for the simultaneous analysis of malathion and malaoxon in cherries obtained from a cherry orchard in Afyonkarahisar city of Turkey. In this field, cherries had been treated with malathion insecticide, 15 days ago from the harvest. The collected cherry samples were removed from the seeds, homogenized and analysed by HPLC. As adopted by the EU-MRLs Regulation and Turkish Food Codex Regulations, the accepted maximum residue limits (MRLs) of malathion in cherry are 0.02 mg/kg and 0.5 mg/kg, respectively.  
Keywords: Insecticides  
Keywords: orchards  
Keywords: ENA 09:Land Use & Planning  
Keywords: Liquid chromatography  
Keywords: Pesticide residues  
Keywords: Turkey  
Keywords: Metabolites  
Keywords: Environment Abstracts  
Keywords: Malathion  
Keywords: Urban areas  
Keywords: Prunus English. Date revised - 2012-01-01. Last updated - 2012-08-02. DOI - OB-MD-0017380355; 15691789; 1018-4619. SubjectsTermNotLitGenreText - Insecticides; orchards; Liquid chromatography; Pesticide residues; Metabolites; Malathion; Urban areas; Prunus; Turkey

69. Attademo, A. M.; Lajmanovich, R. C.; Peltzer, P. M.; Basso, A.; Junges, C., and Cabagna-Zenklusen, M. Plasma B-Esterase and Glutathione S-Transferase Activities in the South American Reptiles Caiman latirostris (Crocodylia, Alligatoridae) and Phrynops hilarii (Testudines, Chelidae). National Council for Scientific and Technical Research (CONICET), Santa Fe, Argentina, mattademo@hotmail.com//: 2012; 223, (6): 3321-3331.   
Rec #: 1920  
Keywords: IN VITRO  
Call Number: NO IN VITRO (MLO)  
Notes: Chemical of Concern: MLO

70. Attar, H; Afshar, S, and Attar, H. Design of Sensible Biosensor for Rapid Detection of Biocides in Potable Water. 2010 Mar; 2, (2): 120-126.   
Rec #: 4290  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In recent years the use of microbial sensors has widely applied for monitoring environmental contamination. In this study, we focus on the effects of biocides such as heavy metals, pesticides and herbicides on bioluminescent bacterium, vibrio fischeri strain DSM 7744 which is used as stable bioindicators. This method makes a correlation between the light of Vibrio fischeri and the concentration of biocides. However, the basic part of this research depends on how to optimize the best condition for maximum bioluminescence. Optimized conditions of Vibrio fischeri were stirring at 120 rpm at a incubation temperature within the range of 23 to 26 degree C after 24 to 48 h when solid cultures were reserved at 18 degree C. In this case we use the whole bacteria, Vibrio fischeri which is one of interesting bioluminescence bacteria, coupled with luminometer. In our procedure the LOD for two pesticides, Malathion and Diazinon, and two heavy metals, Mercury and Selenium is about 1ppb.  
Keywords: Temperature effects  
Keywords: Contamination  
Keywords: Heavy metals  
Keywords: Bioluminescence  
Keywords: Herbicides  
Keywords: Malathion  
Keywords: Light effects  
Keywords: Biosensors  
Keywords: Selenium  
Keywords: Biotechnology and Bioengineering Abstracts  
Keywords: Pesticides  
Keywords: W 30955:Biosensors  
Keywords: Mercury  
Keywords: Biocides  
Keywords: Drinking water  
Keywords: Diazinon  
Keywords: Indicator species  
Keywords: Vibrio fischeri English. Date revised - 2010-05-01. Last updated - 2011-12-14. DOI - MD-0013235421; 12678832; 1996-0700. SubjectsTermNotLitGenreText - Temperature effects; Contamination; Bioluminescence; Heavy metals; Herbicides; Malathion; Light effects; Biosensors; Selenium; Pesticides; Mercury; Biocides; Drinking water; Diazinon; Indicator species; Vibrio fischeri

71. Avino, P; Cinelli, G; Notardonato, I; Russo, M V, and Avino, P. Investigation on the Behavior of Pesticides in Atmosphere. 2011 Nov; 11, (6): 783-790.   
Rec #: 6060  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Although pesticides are widely used in agriculture, they and in particular the relative residues in foodstuffs, water and atmosphere, may cause remarkable sanitary problems due to the harmful effects (carcinogenic and mutagenic effects) on the human health. In fact, their spread in waters and atmosphere can produce undesired effects on various organisms and/or water contamination. This paper shows an analytical approach based on XAD-2 adsorbent and GC analysis for evaluating the pesticide trend in atmosphere: in particular, the pesticides investigated are omethoate, dicrotofos, disulfoton, dimethoate, parathion methyl, formothion, paraoxon ethyl, malaoxon, parathion ethyl, iodofenfos and triazofos. For the analytical methodology a linearity response was obtained (r2 = 0.9988) in GC-NPD whereas the limits of detection range between 2 and 5 pg/ mu L in GC-NPD with a Relative Standard Deviation below 9.5. Finally, this approach has been successfully applied to real samples: the results show that dimethoate concentration decreases with increasing distance from the sampling site but it is still persistent in atmosphere after few days from the pesticide spraying.  
Keywords: Agriculture  
Keywords: Aerosols  
Keywords: Atmospheric pollution  
Keywords: Residues  
Keywords: P 0000:AIR POLLUTION  
Keywords: Air quality  
Keywords: Atmosphere  
Keywords: Water pollution  
Keywords: M2 551.510.42:Air Pollution (551.510.42)  
Keywords: Carcinogenicity  
Keywords: Pollution Abstracts; Meteorological & Geoastrophysical Abstracts  
Keywords: Pesticides  
Keywords: dimethoate  
Keywords: Parathion English. Date revised - 2012-03-01. Last updated - 2012-07-13. DOI - MD-0018263674; 16402486; 1680-8584. SubjectsTermNotLitGenreText - Agriculture; Atmospheric pollution; Air quality; Aerosols; Residues; Carcinogenicity; Pesticides; dimethoate; Atmosphere; Water pollution; Parathion

72. Azab, Hassan a; Duerkop, Axel; Anwar, Z M; Hussein, Belal Hm; Rizk, Moustafa a; Amin, Tarek, and Azab, Hassan A. Luminescence Recognition of Different Organophosphorus Pesticides by the Luminescent Eu(Iii)Apyridine-2,6-Dicarboxylic Acid Probe. 2013 Jan 8; 759, 81-91.   
Rec #: 5490  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Luminescence quenching of a novel long lived Eu(III)apyridine-2,6-dicarboxylic acid probe of 1: 2 stoichiometric ratio has been studied in 0.10 volume fraction ethanolawater mixture at pH 7.5 (HEPES buffer) in the presence of the organophosphorus pesticides chlorfenvinphos (P1), malathion (P2), azinphos (P3), and paraxon ethyl (P4). The luminescence intensity of Eu(III)a(PDCA)2 probe decreases as the concentration of the pesticide increases. It was observed that the quenching due to P3 and P4 proceeds via both diffusional and static quenching processes. Direct methods for the determination of the pesticides under investigation have been developed using the luminescence quenching of Eu(III)apyridine-2,6-dicarboxylic acid probe in solution. The linear range for determination of the selected pesticides is 1.0a35.0 mu M. The detection limits were 0.24a0.55 mu M for P3, P4, and P1 and 2.5 mu M for P2, respectively. The binding constants (K), and thermodynamic parameters of the OPs with Eu(III)a(PDCA)2 were evaluated. Positive and negative values of entropy (IS) and enthalpy (IH) changes for Eu(III)a(PDCA)2aP1 ternary complex were calculated. As the waters in this study do not contain the above mentioned OPs over the limit detectable by the method, a recovery study was carried out after the addition of the adequate amounts of the organophosphorus pesticides under investigation.  
Keywords: P 9999:GENERAL POLLUTION  
Keywords: Thermodynamics  
Keywords: ENA 09:Land Use & Planning  
Keywords: Pesticides  
Keywords: Pollution Abstracts; Environment Abstracts  
Keywords: Luminescence  
Keywords: pH  
Keywords: Malathion English. Date revised - 2013-05-01. Last updated - 2013-05-17. DOI - 3641cd07-e659-4f20-9020-96994364d222; 17918392; 0003-2670. SubjectsTermNotLitGenreText - Thermodynamics; Pesticides; Luminescence; pH; Malathion

73. Azizi, A. and Homayouni, A. Bacterial-degradation of pesticides residue in vegetables during fermentation. 2009; 21, 6255-6264.   
Rec #: 10330  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Number of Volumes: 8  
Includes references 1022783573

74. Babu, V; Unnikrishnan, P; Anu, G; Nair, S M, and Babu, V. Distribution of Organophosphorus Pesticides in the Bed Sediments of a Backwater System Located in an Agricultural Watershed: Influence of Seasonal Intrusion of Seawater. 2011 May; 60, (4): 597-609.   
Rec #: 3480  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This article focuses on the temporal and spatial distribution of three organophosphorous pesticides-malathion, methyl parathion, and chlorpyrifos-in the sedimentary environment of a backwater ecosystem, Kuttanad backwaters, situated in Kerala, India. Based on salinity distribution, geographic characteristics, and human activities prevailing in the area, the study area was divided into three zones: zone 1 with riverine characteristics, zone 2 with freshwater characteristics during and after the monsoon season and estuarine characteristics during the premonsoon season, and zone 3 with estuarine characteristics. The organophosphorus pesticides in the study area showed the order of enrichment as chlorpyrifos >malathion >methyl parathion. While studying the variations in pesticide concentrations seasonally, higher concentrations were observed during the premonsoon monsoon season, with the concentrations being lower than the detectable level. Sediment characteristics, such as pH, texture, organic carbon, moisture content, etc., had reflective effect on the degradation rates of pesticides. The runoff water from the paddy fields made a larger contribution of pesticide pollution to the study area.  
Keywords: India, Kerala, Kuttanad  
Keywords: Spatial distribution  
Keywords: Degradation  
Keywords: Backwater  
Keywords: M2 551.468:Coastal Oceanography (551.468)  
Keywords: ENA 12:Oceans & Estuaries  
Keywords: ISW, India, Kerala  
Keywords: Watersheds  
Keywords: Spatial Distribution  
Keywords: Malathion  
Keywords: backwaters  
Keywords: spatial distribution  
Keywords: Salinity  
Keywords: Organophosphorus Pesticides  
Keywords: Carbon  
Keywords: Agricultural Chemicals  
Keywords: Rice fields  
Keywords: Marine environment  
Keywords: H 5000:Pesticides  
Keywords: Pesticide pollution  
Keywords: Salinity effects  
Keywords: Seasonal variability  
Keywords: Methyl parathion  
Keywords: Enrichment  
Keywords: X 24330:Agrochemicals  
Keywords: pH effects  
Keywords: Salinity distribution  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: Pesticides (organophosphorus)  
Keywords: SW 3050:Ultimate disposal of wastes  
Keywords: Freshwater environments  
Keywords: Sedimentary environments  
Keywords: Sediments  
Keywords: Chlorpyrifos  
Keywords: P 1000:MARINE POLLUTION  
Keywords: Pesticides  
Keywords: Pesticides in river water  
Keywords: Meteorological & Geoastrophysical Abstracts; Health & Safety Science Abstracts; Environment Abstracts; Water Resources Abstracts; Pollution Abstracts; Aqualine Abstracts; Toxicology Abstracts  
Keywords: Runoff  
Keywords: Monsoons  
Keywords: Parathion English. Date revised - 2011-06-01. Last updated - 2012-09-10. DOI - f466c5d7-d862-4dfd-b756csaobj201; 14757491; 0090-4341. SubjectsTermNotLitGenreText - Pesticides (organophosphorus); Spatial distribution; Freshwater environments; Watersheds; Sediments; Malathion; Chlorpyrifos; Carbon; Rice fields; Marine environment; Salinity effects; Pesticide pollution; Methyl parathion; pH effects; Runoff; Monsoons; Pesticides in river water; Seasonal variability; Sedimentary environments; Salinity distribution; backwaters; spatial distribution; Degradation; Pesticides; Parathion; Salinity; Organophosphorus Pesticides; Agricultural Chemicals; Backwater; Spatial Distribution; Enrichment; India, Kerala, Kuttanad; ISW, India, Kerala

75. Bacey, J.; Spurlock, F.; Starner, K.; Feng, H.; Hsu, J.; White, J., and Tran, D. M. Residues and Toxicity of Esfenvalerate and Permethrin in Water and Sediment, in Tributaries of the Sacramento and San Joaquin Rivers, California, USA. 2005; 74, (5): 864-871.   
Rec #: 1280  
Keywords: MIXTURE  
Call Number: NO MIXTURE (ATZ,AZ,BMC,CPY,DCT,DDVP,DEATZ,DIATZ,DMT,DS,DU,DZ,EFV,EP,FMP,HXZ,MDT,MLN,MP,NFZ,PFF,PMR,PMT,PRO,PRT,SZ,TBF)  
Notes: Chemical of Concern: ATZ,AZ,BMC,CPY,DCT,DDVP,DEATZ,DIATZ,DMT,DS,DU,DZ,EFV,EP,FMP,FNF,HXZ,MBZ,MDT,MLN,MP,NFZ,PFF,PMR,PMT,PRO,PRT,SZ,TBF

76. Bagheri, H.; Aghakhani, A.; Ayazi, Z., and Khakinezhad, M. A Polypyrrole-Based Sorptive Microextraction Coating for Preconcentration of Malathion from Aquatic Media. 2011; 74, 731-735.   
Rec #: 12050  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A new micro-solid phase extraction method was developed by combining solid-phase extraction and stir bar sorptive extraction to benefit from the advantages of both techniques. A polypyrrole coating was electrochemically synthesized on the surface of an already used graphite furnace, employed in electro-thermal atomic absorption spectroscopy. The cylindrical geometry of the graphite tube provided a rather huge surface area, suitable for sorptive extraction. The novel sorbent coating was examined as an extracting medium to isolate malathion. Effects of different parameters such as extraction time, salt concentration, sample volume, desorption solvent and time were investigated and optimized. Under the optimized conditions, the limit of detection and limit of quantification of the developed method were 5 and 20 ng L(-1), respectively. The calibration curve showed linearity in the range of 0.1-100 mu g L(-1) (R(2) = 0.9968). The precision was evaluated at 0.1 and 1 mu g L(-1) concentration levels and relative standard deviations (n = 3) were found to be 10 and 7%, respectively. The developed method was successfully applied to the extraction of malathion from real river water and tap water samples, and relative recoveries at the spiked level of 0.1 mu g L(-1) were 94 and 97%, respectively.  
Number of Volumes: 9-10  
ISI Document Delivery No.: 849ZV <Go to ISI>://CCC:000297165100008

77. Bagheri, Habib; Es'haghi, Ali; Es-Haghi, Ali; Mesbahi, Noushin, and Bagheri, Habib. A High-Throughput Approach for the Determination of Pesticide Residues in Cucumber Samples Using Solid-Phase Microextraction on 96-Well Plate. 2012 Aug 31; 740, 36-42.   
Rec #: 2560  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A high-throughput solid-phase microextraction (SPME) on 96-well plate together with gas chromatography-mass spectrometry (GC-MS) was developed for the determination of some selected pesticides in cucumber samples. Pieces with the length of 1.0 cm of silicon tubing were precisely prepared and then coated on the end part of stainless steel wires. The prepared fibers were positioned in a home-made polytetrafluoroethylene (PTFE)-based constructed ninety-six holes block to have the possibility of simultaneous immersion of the SPME fibers into the center of individual wells. Pesticides such as diazinon, penconazol, tebuconazol, bitertanol, malathion, phosalone and chlorpyrifos-methyl were selected for their highly application in cucumber field. The performances of the SPME fibers, such as intra and inter-fibers reproducibility, were evaluated and the results showed a good similarity in extraction yields. A volume of 1 mL of the aquatic supernatant of the cucumber samples was transferred into the 96-well plate and the array of SPME fibers was applied for the extraction of the selected pesticides. The important parameters influencing the whole extraction process including, organic solvent percent, salt addition, dilution factor, stirring rate and extraction time were optimized. The inter- and intra-day RSD% were found to be less than 15.4%. Limits of detection (LOD) and limits of quantification (LOQ) were below 60 and 180 mu g kga1, respectively. The coefficient of determination was satisfactory (r2 > 0.99) for all the studied analytes. The developed method was successfully applied to the monitoring of several samples gathered from local markets.  
Keywords: Salts  
Keywords: Fibers  
Keywords: Silicon  
Keywords: ENA 09:Land Use & Planning  
Keywords: Pesticide residues  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Solvents  
Keywords: Steel  
Keywords: Environment Abstracts; Pollution Abstracts  
Keywords: Diazinon  
Keywords: Malathion  
Keywords: Spectrometry English. Date revised - 2012-09-01. Last updated - 2012-10-08. DOI - 54141e5e-6889-4b53-a2cb-56a1c6cbfb80; 17074654; 0003-2670. SubjectsTermNotLitGenreText - Salts; Fibers; Silicon; Pesticide residues; Solvents; Steel; Diazinon; Malathion; Spectrometry

78. Bai, H-Y; Han, B; Zheng, L; Yang, D-F; Wang, X-R; Sun, P-X , and Bai, H-Y. Composition and Distribution Characteristics of Organophosphorus Pesticides in the Sea Water of Sanggou Bay. 2012 Aug; 31, (4): 632-637.   
Rec #: 2590  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organophosphorus pesticides (OPPs) of composition and distribution characteristics in the sea waters of Sanggou Bay have been studied by Gas Chromatography-Mass Spectrometry (GC-MS). Eight OPPs in the seawaters of Sanggou Bay were determined by using GC-MS with the external standard quantitative method in the Spring and Autumn of 2009. The range of concentration of capital sigma OPPs in the bay was 0.001 - 0.265 mu g/L with an average of 0.061 mu g/L. Six different types of OPPs were detected with the main pollutants being malathion and parathion. The distribution of OPPs from the survey in Sanggou Bay are presented in this paper. The results show that the concentration of OPPs is higher in the centre, lower far from the shore and decreasing from the outside to the inside of the bay at the surface water body, with the highest concentration at the bottom water body near the mouth of the bay in Spring. The concentration of OPPs increases from northwest and northeast outside of the bay to inside at the surface water body and increases from inside to outside at the bottom water body in Autumn. The results provide some references for the distribution characteristics of OPPs in this region.  
Keywords: Surface water  
Keywords: Seawater  
Keywords: P 1000:MARINE POLLUTION  
Keywords: Pesticides  
Keywords: Shores  
Keywords: Water bodies  
Keywords: Pollution Abstracts  
Keywords: Malathion  
Keywords: INW, China, People's Rep., Sandong Prov., Sanggou Bay  
Keywords: Spectrometry  
Keywords: Parathion Chinese. Date revised - 2012-11-01. Last updated - 2012-12-03. DOI - MD-0019764131; 17140461; 0254-5357. SubjectsTermNotLitGenreText - Surface water; Seawater; Pesticides; Shores; Water bodies; Malathion; Spectrometry; Parathion; INW, China, People's Rep., Sandong Prov., Sanggou Bay

79. Bajgar, Jiri . 5 - Toxicodynamics. Nerve Agents Poisoning and its Treatment in Schematic Figures and Tables. Oxford: Elsevier; 2012: 19-43.   
Rec #: 1860  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: The mechanism of actionÇöi.e., the toxicodynamicsÇöof OPs is based on irreversible AChE inhibition at the cholinergic synapses. The cholinergic receptor is schematically described, and differences between AChE and butyrylcholinesterase (BuChE) are shown in tables. ISSN/ISBN: 978-0-12-416047-7 http://www.sciencedirect.com/science/article/pii/B9780124160477000050

80. Baker, Nick J; Bancroft, Betsy a; Garcia, Tiffany S, and Baker, Nick J. A Meta-Analysis of the Effects of Pesticides and Fertilizers on Survival and Growth of Amphibians. 2013 Apr 1; 449, 150-156.   
Rec #: 5420  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The input of agrochemicals has contributed to alteration of community composition in managed and associated natural systems, including amphibian biodiversity. Pesticides and fertilizers negatively affect many amphibian species and can cause mortality and sublethal effects, such as reduced growth and increased susceptibility to disease. However, the effect of pesticides and fertilizers varies among amphibian species. We used meta-analytic techniques to quantify the lethal and sublethal effects of pesticides and fertilizers on amphibians in an effort to review the published work to date and produce generalized conclusions. We found that pesticides and fertilizers had a negative effect on survival of -0.9027 and growth of -0.0737 across all reported amphibian species. We also observed differences between chemical classes in their impact on amphibians: inorganic fertilizers, organophosphates, chloropyridinyl, phosphonoglycines, carbamates, and triazines negatively affected amphibian survival, while organophosphates and phosphonoglycines negatively affected amphibian growth. Our results suggest that pesticides and fertilizers are an important stressor for amphibians in agriculturally dominated systems. Furthermore, certain chemical classes are more likely to harm amphibians. Best management practices in agroecosystems should incorporate amphibian species-specific response to agrochemicals as well as life stage dependent susceptibility to best conserve amphibian biodiversity in these landscapes.  
Keywords: Environment Abstracts; Pollution Abstracts  
Keywords: Environmental Studies English. Date revised - 2013-04-01. Last updated - 2013-04-11. DOI - OB-6c788940-3667-480b-9908csamfg201; 17822445; 0048-9697

81. Balbuena, P.; Li, W.; Rzigalinski, B. A., and Ehrich, M. Malathion/Oxon and Lead Acetate Increase Gene Expression and Protein Levels of Transient Receptor Potential Canonical Channel Subunits TRPC1 and TRPC4 in Rat Endothelial Cells of the Blood-Brain Barrier. 2012; 31, (3): 238-249.   
Rec #: 1940  
Keywords: IN VITRO  
Call Number: NO IN VITRO (MLN,MLO)  
Notes: Chemical of Concern: MLN,MLO,PbAC

82. Balbuena, Pergentino; Li, Wen, and Ehrich, Marion. Assessments of tight junction proteins occludin, claudin 5 and scaffold proteins ZO1 and ZO2 in endothelial cells of the rat bloodÇôbrain barrier: Cellular responses to neurotoxicants malathion and lead acetate. 2011 Jan; 32, (1): 58-67.   
Rec #: 20  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: The bloodÇôbrain barrier (BBB) is essential for central nervous system (CNS) normal function. It is formed by endothelial cells with special characteristics, which confer the BBB with low permeability and high transendothelial electrical resistance (TEER). We previously demonstrated that malathion and lead, two neurotoxicants widely present in the environment, decrease TEER and increase permeability in in vitro models of the BBB. In this study we assessed tight junction disruption at the protein and gene expression levels using a **rat brain microvascular endothelial cell line** (RBE4) exposed to lead acetate at 10ęĆ5 M and 10ęĆ6 M, malathion at 10ęĆ5 M, malaoxon at 10ęĆ6 M, and their combinations. Cells were incubated with treatments for 2 h, 4 h, 8 h, 16 h, and 24 h periods. Immunoblotting assessments demonstrated that protein levels of tight junction proteins occludin and claudin 5, and scaffold proteins ZO1 and ZO2 were decreased after treatments. Gene expression determinations did not correlate with the decreases in protein, indicating that the effects on these proteins were post-translational. BBB/ Tight junctions/ Malathion/ Lead acetate/ Endothelial cells http://www.sciencedirect.com/science/article/pii/S0161813X10001890

83. Balbuena, Pergentino; Li, Wen; Magnin-Bissel, Geraldine; Meldrum, J Blair, and Ehrich, Marion. Comparison of Two Blood-Brain Barrier in Vitro Systems: Cytotoxicity and Transfer Assessments of Malathion/Oxon and Lead Acetate. 2010 Apr; 114, ( 2): 260-271.   
Rec #: 4270  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Toxicity and integrity disruption in response to transport through the blood-brain barrier (BBB) of the organophosphates malathion and malaoxon and heavy metal lead acetate were assessed in two in vitro barrier systems. One system was constructed using **bovine brain microvascular endothelial cells** (BMEC), while the other system was constructed with **rat brain microvascular endothelial cells (RBE4); both were cocultured with rat astrocytes**. We hypothesized that these models would respond differently to neurotoxic compounds. Concentrations of malathion, malaoxon, and lead acetate between 0.01 microM and 1 mM were assessed for their capacity to cause cytotoxicity to the astrocytes and endothelial cells utilized to construct the BBB systems, with the least cytotoxic concentrations chosen for transfer assessments of neurotoxicants through the barrier systems. Concentrations of malathion at 10 microM, malaoxon at 1 microM, and lead acetate at 1 and 10 microM were selected. Lead concentrations were measured in media of the abluminal and luminal sides of both systems using graphite furnace atomic absorption at the beginning of the treatment (T0) and 14 h later (T14). Passage of organophosphate compounds was determined utilizing inhibition of acetylcholinesterase enzyme in a neuroblastoma cell line (SH-SY5Y) localized below the barrier system. Transendothelial electrical resistance was assessed as a measurement of integrity of the barrier systems, with baseline values higher with the RBE4-astrocyte system than with the BMEC-astrocyte system. Metabolic capability, as measured by esterase activity, was higher in BMECs, which were more likely to retain lead than RBE4 cells. Results suggest that differences in endothelial cell source can affect the outcome of studies on toxicant transfer through in vitro BBB systems.  
Keywords: Coculture Techniques  
Keywords: Animals  
Keywords: Acetylcholinesterase  
Keywords: Astrocytes -- drug effects  
Keywords: Blood-Brain Barrier -- metabolism  
Keywords: Organometallic Compounds -- toxicity  
Keywords: Malathion -- analogs & derivatives  
Keywords: Malathion  
Keywords: Capillaries -- physiology  
Keywords: Rats  
Keywords: Endothelium, Vascular -- drug effects  
Keywords: Insecticides  
Keywords: Organometallic Compounds -- metabolism  
Keywords: Cell Survival -- drug effects  
Keywords: RX077P88RY  
Keywords: Capillary Permeability -- physiology  
Keywords: EC 3.1.1.7  
Keywords: malaoxon  
Keywords: Insecticides -- toxicity  
Keywords: Insecticides -- metabolism  
Keywords: Endothelium, Vascular -- metabolism  
Keywords: Organometallic Compounds  
Keywords: Index Medicus  
Keywords: Electric Impedance  
Keywords: Capillary Permeability -- drug effects  
Keywords: Cell Line, Tumor  
Keywords: Insecticides -- analysis  
Keywords: Pregnancy  
Keywords: Blood-Brain Barrier -- drug effects  
Keywords: Animals, Newborn  
Keywords: Rats, Sprague-Dawley  
Keywords: Cattle  
Keywords: 0  
Keywords: Malathion -- analysis  
Keywords: Capillaries -- drug effects  
Keywords: lead acetate  
Keywords: 1634-78-2  
Keywords: 121-75-5  
Keywords: Capillaries -- metabolism  
Keywords: Malathion -- toxicity  
Keywords: Female  
Keywords: Organometallic Compounds -- analysis  
Keywords: Malathion -- metabolism  
Keywords: Astrocytes -- metabolism  
Keywords: Acetylcholinesterase -- drug effects eng. Date completed - 2010-06-21. Date created - 2010-03-17. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-20064834; 20064834; 1096-0929

84. Baldwin, D. H.; Spromberg, J. A.; Collier, T. K., and Scholz, N. L. A Fish of Many Scales: Extrapolating Sublethal Pesticide Exposures to the Productivity of Wild Salmon Populations. David.Baldwin@noaa.gov//: 2009; 19, (8): 2004-2015.   
Rec #: 20  
Keywords: MODELING  
Call Number: NO MODELING (AZ,CPY,DDVP,DZ,MLN,MP,MTM,PSM)  
Notes: Chemical of Concern: AZ,CPY,DDVP,DZ,FNF,MLN,MP,MTM,PSM

85. Band, Pierre R; Abanto, Zenaida; Bert, Joel; Lang, Barbara; Fang, Raymond; Gallagher, Richard P, and Le, Nhu D. Prostate Cancer Risk and Exposure to Pesticides in British Columbia Farmers. 2011 Feb 1; 71, (2): 168-183.   
Rec #: 6600  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Several epidemiologic studies have reported an increased risk of prostate cancer among farmers. Our aim was to assess the risk of developing prostate cancer in relation to exposure to specific active compounds in pesticides. A case-control approach was used with 1,516 prostate cancer patients and 4,994 age-matched internal controls consisting of all other cancer sites excluding lung cancer and cancers of unknown primary site. Lifetime occupational history was obtained through a self-administered questionnaire and used in conjunction with a job exposure matrix to estimate the participants' lifetime cumulative exposure to approximately 180 active compounds in pesticides. Conditional logistic regression was used to assess prostate cancer risk, adjusting for potential confounding variables and effect modifiers. These include age, ethnicity, alcohol consumption, smoking, education, and proxy respondent. The significant association between prostate cancer risk and exposure to DDT (OR = 1.68; 95% CI: 1.04-2.70 for high exposure), simazine (OR = 1.89; 95% CI: 1.08-3.33 for high exposure), and lindane (OR = 2.02; 95% CI: 1.15-3.55 for high exposure) is in keeping with those previously reported in the literature. We also observed a significant excess risk for several active ingredients that have not been previously reported in the literature such as dichlone, dinoseb amine, malathion, endosulfan, 2,4-D, 2,4-DB, and carbaryl. Some findings in our study were not consistent with those reported in the literature, including captan, dicamba, and diazinon. It is possible that these findings showed a real association and the inconsistencies reflected differences of characteristics between study populations. Copyright Â© 2010 Wiley-Liss, Inc.  
Keywords: Agriculture  
Keywords: Humans  
Keywords: Prostatic Neoplasms -- chemically induced  
Keywords: Retrospective Studies  
Keywords: Aged  
Keywords: Simazine -- poisoning  
Keywords: 122-34-9  
Keywords: Male  
Keywords: 50-29-3  
Keywords: Questionnaires  
Keywords: Prostatic Neoplasms -- epidemiology  
Keywords: 58-89-9  
Keywords: Agricultural Workers' Diseases -- chemically induced  
Keywords: Index Medicus  
Keywords: Pesticides -- poisoning  
Keywords: Lindane  
Keywords: Simazine  
Keywords: Lindane -- poisoning  
Keywords: Risk Assessment -- methods  
Keywords: DDT -- poisoning  
Keywords: 0  
Keywords: Logistic Models  
Keywords: Agricultural Workers' Diseases -- epidemiology  
Keywords: DDT  
Keywords: Pesticides  
Keywords: Case-Control Studies  
Keywords: Occupational Exposure -- adverse effects  
Keywords: British Columbia -- epidemiology eng. Date completed - 2011-01-24. Date created - 2010-12-24. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-20799287; 20799287; 1097-0045

86. Barber, D. S. and Knowles, T. Characterization of Largemouth Bass Acetylcholinesterase and Its Inhibition by Antiesterase Pesticides. 2004; 78, (1S): 279-(ABS).   
Rec #: 440  
Keywords: NOT PURSUING,ABSTRACT  
Call Number: NO ABSTRACT (MLO)  
Notes: Chemical of Concern: MLO

87. Barik, T. K. ; Sahu, B., and Swain, V. A review on Anopheles culicifacies: From bionomics to control with special reference to Indian subcontinent. 2009; 109, 87-97.   
Rec #: 12120  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Anopheles culicifacies, is a complex of five isomorphic sibling species A, B, C. D and E and is considered to be the major malaria vector in the Indian subcontinent. Despite numerous Studies, it is difficult to have a global view of the ecological and bionomical characteristics of the individual sibling species, as different identification methods have been used. Major biological and ecological trends such as the high plasticity of behaviour and the sympatry of species are addressed. In spite of the availability of rapid Molecular identification tools, we still lack important information concerning the biological characteristics of each sibling species. Resistance to insecticide is alarming as it has developed quadruple resistance in two states of India. An intensified and appropriate intervention measure to interrupt transmission is the call of the day. The authors focus On (I) reviewing the vectorial aspects of An. culicifacies (2) discussing recently published data on bionomics of each sibling species, (3) identifying lacunae in the understanding of the Culicifacies complex, and (4) exploring the possibility of proper control measures. Our understanding of the bionomics of all the five sibling species Would certainly help, keeping in mind the climatic changes we are to face in the next few years. (C) 2008 Elsevier B.V. All rights reserved.  
Number of Volumes: 2  
ISI Document Delivery No.: 398MW <Go to ISI>://CCC:000262737200001

88. Barker, Zachary; Venkatchalam, Veena; Martin, Audrey N; Farquar, George R, and Frank, Matthias. Detecting Trace Pesticides in Real Time Using Single Particle Aerosol Mass Spectrometry. 2010 Feb 28; 661, (2): 188-194.   
Rec #: 7120  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pesticides are toxic substances and may cause unintentional harm if improperly used. The ubiquitous nature of pesticides, with frequent use in agriculture and the household, and the potential for harm that pesticides pose to non-target organisms such as wildlife, humans, and pets, demonstrate the need for rapid and effective detection and identification of these compounds. In this study, single particle aerosol mass spectrometry (SPAMS) was used to rapidly detect compounds from four classes of pesticides commonly used in agricultural and household applications. These include permethrin (pyrethroid class), malathion and dichlorvos (organophosphate class), imidacloprid (chloronicotinyl class), and carbaryl (carbamate class). Analytical standards of each compound were diluted and aerosolized using a nebulizer to create particles for analysis in the SPAMS instrument. The resultant dual-polarity time-of-flight mass spectra were then analyzed to identify the characteristic peaks of the compound in each sample. In addition, samples of commercial products containing pesticides, a commercial insecticide spray, containing permethrin, and a canine flea collar, containing carbaryl, were analyzed in their original form using SPAMS without any significant sample preparation. The characteristic mass spectral peaks of the active pesticides in these samples were identified using the mass spectra obtained earlier from the pesticide analytical standards. By successfully identifying pesticides in analytical standards and in commercial products, it is demonstrated herein that the SPAMS system may be capable of pesticide detection in numerous environmental and agricultural situations. Copyright 2010 Elsevier B.V. All rights reserved.  
Keywords: Animals  
Keywords: Aerosols  
Keywords: 0  
Keywords: Analytic Sample Preparation Methods  
Keywords: Index Medicus  
Keywords: Dogs  
Keywords: Mass Spectrometry -- methods  
Keywords: Pesticide Residues  
Keywords: Pesticide Residues -- analysis  
Keywords: Pesticide Residues -- chemistry  
Keywords: Time Factors eng. Date completed - 2010-05-31. Date created - 2010-02-01. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-20113734; 20113734; 1873-4324

89. Barnett, J. B. and Brundage, K. M. 5.25 - Immunotoxicology of Pesticides and Chemotherapies. Editor-in-Chief:-á-áCharlene A. McQueen. Comprehensive Toxicology (Second Edition). Oxford: Elsevier; 2010: 467-487.   
Rec #: 2190  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: This chapter reviews the literature that describes the immunotoxic effects of two classes of chemicals that are deliberately applied (pesticides) or administered (chemotherapies). Immunotoxicity refers to any change in the immune system caused by or precipitated by the chemical. This can take the form of reduced response (or ability to respond), increased response characteristic of immune-mediated hypersensitivity, or loss of immune privilege (autoimmune disease). For both groups the list of individual agents is very long and only a few examples of each type of pesticide or chemotherapeutic agent class could be discussed in the space available. Within the pesticides, the major classes that are discussed are biological (e.g., Bacillus thuringiensis (Bt) which interferes with insect mid-gut membranes), inorganic (e.g., methylarsonic acid which causes oxidative damage), and organic (e.g., malathion which is an acetylcholinesterase inhibitor). The primary use of these chemicals is to control insects, fungi, unwanted plant species (weeds), mites, or rodents. The list of chemotherapy agents discussed was parsed by determining the number of literature citations found in Pubmed. The agents were classified (Table 2) as listed on the National Cancer Institute (NCI) website as it provides a huge compendium of information on all chemotherapy agents, including their mode of action and specificity (if any), and the use of identical terms was perceived to the advantage of the readers of this chapter. Some emphasis is placed on discussing cyclophosphamide (CTX) as this agent has dose-dependent effects due to the heightened sensitivity of T-regulatory cells which results in enhanced immune responses with lower levels of CTX (Table 3). Higher doses of CTX are toxic to immune cells uniformly and result in ablation of all immune cell types. While these dose-differences are in the initial stages of clinical research, there is a rich literature on its use in laboratory studies. Several other classes of chemotherapies are also discussed. ISSN/ISBN: 978-0-08-046884-6 acaricides/ cancer/ chemotherapy/ fungicide/ herbicide/ immune/ insecticide/ pesticide/ rodenticides http://www.sciencedirect.com/science/article/pii/B9780080468846006278

90. Barton, H. A.; Pastoor, T. P.; Baetcke, K.; Chambers, J. E.; Diliberto, J.; Doerrer, N. G.; Driver, J. H.; Hastings, C. E.; Iyengar, S.; Krieger, R.; Stahl, B., and Timchalk, C. The Acquisition and Application of Absorption, Distribution, Metabolism, and Excretion (ADME) Data in Agricultural Chemical Safety Assessments. 2006; 36, 9-35.   
Rec #: 30  
Keywords: METHODS,REVIEW  
Call Number: NO METHODS (24D,24DXY,ATZ,AZ,CPY,DQTBr,MLN,PMR,PPX,PQT,TPR), NO REVIEW (24D,24DXY,ATZ,AZ,CPY,DQTBr,MLN,PMR,PPX,PQT,TPR)  
Notes: EcoReference No.: 151373  
Chemical of Concern: 24D,24DXY,ATZ,AZ,CPY,DDE,DEET,DQTBr,DTM,EPRN,HCCH,IFP,MLN,PMR,PND,PPCP,PPGL,PPX,PQT,PRN,TPR

91. Basfar, Ahmed a; Mohamed, Khaled a; Al-Saqer, Omar a, and Basfar, Ahmed A. De-Contamination of Pesticide Residues in Food by Ionizing Radiation. 2012 Apr 1; 81, (4): 473-478.   
Rec #: 5850  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The role of gamma irradiation on removal of pesticides in aqueous solutions or in vegetables and fruits was investigated. Radiation - induced decontamination of pesticides is generally greater in aqueous solutions than in selected vegetables and fruits. Residues of malathion (0.5 ppm in potatoes, 8 ppm in onions and dates), pirimiphos-methyl (1 ppm in onions and grapes) and cypermethrin (0.05 ppm in potatoes and 0.1 ppm in onions) were not reduced to below maximum residue limits (MRLs) for irradiation doses up to 1 kGy. The same trend was observed when irradiation was performed for grapes fortified with malathion (8 ppm) and cypermethrin (2 ppm) for absorbed doses up to 2 kGy. Ionizing radiation reduced the residues of pirimiphos-methyl (0.05 ppm in potatoes at1 kGy, 1 ppm in grapes at 2 kGy and 0.1 ppm in dates at1 kGy), malathion (8 ppm in grapes at 7 kGy) and cypermethrin (2 ppm in grapes at 7 kGy) to below maximum residue limits (MRLs).  
Keywords: Potatoes  
Keywords: Fruits  
Keywords: Vegetables  
Keywords: Residues  
Keywords: Onions  
Keywords: Ionizing radiation  
Keywords: Pesticides  
Keywords: Grapes  
Keywords: Solid State and Superconductivity Abstracts (SO); METADEX (MD); Advanced Polymers Abstracts (EP); Environmental Engineering Abstracts (EN); Composites Industry Abstracts (ED); Engineered Materials Abstracts, Ceramics (EC) English. Date revised - 2012-06-01. Last updated - 2012-12-05. DOI - eaaa09fc-a0ad-46e5-9e7ccsamfg201; 16323250; 0969-806X

92. Basol, M. S.; Eren, S., and Sadar, M. H. Comparative Toxicity of Some Pesticides on Human Health and Some Aquatic Species. 1980; 15, (6): 993-1004.   
Rec #: 450  
Keywords: IN VITRO  
Call Number: NO IN VITRO (CBL,MLN)  
Notes: Chemical of Concern: AND,CBL,MLN

93. Basso, A.; Attademo, A. M.; Lajmanovich, R. C.; Peltzer, P. M.; Junges, C.; Cabagna, M. C.; Fiorenza, G. S., and Sanchez-Hernandez, J. C. Plasma Esterases in the Tegu Lizard Tupinambis merianae (Reptilia, Teiidae): Impact of Developmental Stage, Sex, and Organophosphorus In Vitro Exposure. 2012; 19, (1): 214-225.   
Rec #: 1870  
Keywords: IN VITRO  
Call Number: NO IN VITRO (MLO)  
Notes: Chemical of Concern: MLO

94. Bates, A. N.; Rowlands, D. G., and Harris, A. H. The Removal of Plant Extractives Interfering in the Determination of Malathion Residues in Barley and Rice Bran. SOIL; 1962; 87, 643-650.   
Rec #: 1370  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN

95. Battaglia, Christine L R; Gogal, Robert M; Zimmerman, Kurt, and Misra, Hara P. Malathion, Lindane, and Piperonyl Butoxide, Individually or in Combined Mixtures, Induce Immunotoxicity Via Apoptosis in Murine Splenocytes in Vitro. 2010; 29, (2): 209-220.   
Rec #: 4300  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Lindane, malathion, and piperonyl butoxide were cultured singly or as mixtures with **murine splenocytes** to evaluate changes in cell death and caused cytotoxicity in a concentration- and time-dependent manner. Pesticide mixture studies were then performed based on minimum cytotoxicity concentrations (<LC(25)). Cytologic analysis and the alamarBlue assay revealed that individual pesticides and mixtures of malathion/lindane and malathion/piperonyl butoxide prompted cytotoxicity, which was supported by DNA ladder analysis. Using 7-aminoactinomycin D, apoptosis was quantified at 6.5%, 12.0%, 13.2%, 19.3%, and 23.4% for malathion, lindane, piperonyl butoxide, malathion-lindane, and malathion-piperonyl butoxide, respectively. Staining with 7-aminoactinomycin D and B- or T-cell-specific fluorescent-labeled monoclonal antibodies showed B cells to be more susceptible to malathion and piperonyl butoxide treatments than T cells. Treatment of murine splenocytes in vitro with minimum cytotoxic concentrations of lindane, malathion, and piperonyl butoxide and their mixtures induced apoptosis, the effect elicited by the mixtures being additive compared with the individual pesticide effect.  
Keywords: Animals  
Keywords: Lindane -- toxicity  
Keywords: Spleen -- cytology  
Keywords: 58-89-9  
Keywords: Index Medicus  
Keywords: Lindane  
Keywords: Mice  
Keywords: Malathion  
Keywords: Pesticides -- toxicity  
Keywords: 0  
Keywords: 51-03-6  
Keywords: Cells, Cultured  
Keywords: Pesticides  
Keywords: Piperonyl Butoxide -- toxicity  
Keywords: Mice, Inbred C57BL  
Keywords: Spleen -- immunology  
Keywords: Flow Cytometry  
Keywords: Spleen -- drug effects  
Keywords: 121-75-5  
Keywords: Immunophenotyping  
Keywords: Malathion -- toxicity  
Keywords: Piperonyl Butoxide eng. Date completed - 2010-07-12. Date created - 2010-03-25. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-20075186; 20075186; 1092-874X

96. Bavcon Kralj, M.; Franko, M., and Trebse, P. Photodegradation of Organophosphorus Insecticides-Investigations of Products and Their Toxicity Using Gas Chromatography-Mass Spectrometry and AChE-Thermal Lens Spectrometric Bioassay. 2007; 67, 99-107.   
Rec #: 460  
Keywords: IN VITRO,NO SPECIES  
Call Number: NO IN VITRO (AZ,CPY,MLN,MLO), NO SPECIES (AZ,CPY,MLN,MLO)  
Notes: Chemical of Concern: AZ,CPY,MLN,MLO

97. Beduk, F.; Aydin, M. E., and Ozcan, S. Degradation of Malathion and Parathion by Ozonation, Photolytic Ozonation, and Heterogeneous Catalytic Ozonation Processes. 2012; 40, 179-187.   
Rec #: 12180  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The oxidation of organophosphorus pesticides (OPPs), such as malathion and parathion, in aqueous solution was studied using conventional ozonation (O3), photolytic ozonation (O3/UV, O3/UV/H2O2), and heterogeneous catalytic ozonation (O3/TiO2/UV) processes. Experiments were performed in batch mode at laboratory scale and processes were compared in terms of disappearance kinetics. The best results of pesticide mineralization were obtained when TiO2 particles in combination with ozone (O3) and UV photolysis (??=?254?nm) were applied. Decomposition of 99% of parent compounds were achieved in 10?min and oxon derivatives were completely removed in 30?min. The initial reaction rate increases linearly with increasing catalyst amount. Toxicity measurements of the treated solutions were carried out in order to evaluate the efficiency of the treatment methods. No detoxification was achieved for O3 and O3/UV applications. Heterogeneous photocatalytic ozonation was shown to be feasible for achieving complete decomposition of OPPs and their oxon intermediates.  
Number of Volumes: 2  
ISI Document Delivery No.: 881FI <Go to ISI>://CCC:000299467300010

98. Belden, J. B.; Gilliom, R. J.; Martin, J. D., and Lydy, M. J. Relative Toxicity and Occurrence Patterns of Pesticide Mixtures in Streams Draining Agricultural Watersheds Dominated by Corn and Soybean Production. Fisheries and Illinois Aquaculture Center and Department of Zoology,Southern Illinois University,Carbondale,IL////: SOIL; 2007; 3, (1): 90-100.   
Rec #: 40  
Keywords: NO DURATION,SURVEY  
Call Number: NO DURATION (24D,24DXY,ACR,ATZ,AZ,BT,BTY,CBF,CBL,CPY,DCPA,DMB,DU,DZ,EP,EPTC,LNR,MLN,MLT,MP,MTL,PDM,PPG,PPN,PRO,SZ,TBC,TBO,TET,TFN,TPR), NO SURVEY (24D,24DXY,ACR,ATZ,AZ,BT,BTY,CBF,CBL,CPY,DCPA,DMB,DU,DZ,EP,EPTC,LNR,MLN,MLT,MP,MTL,PDM,PPG,PPN,PRO,SZ,TBC,TBO,TET,TFN,TPR)  
Notes: Chemical of Concern: 24D,24DXY,ACF,ACO,ACR,ATZ,AZ,BFL,BMN,BT,BTY,CBF,CBL,CPY,CZE,DCPA,DLD,DMB,DU,DZ,EP,EPTC,FMU,FNF,HCCH,LNR,MBZ,MLN,MLT,MP,MTL,NPP,PCH,PDM,PPCP,PPG,PPN,PRO,SZ,TBC,TBO,TET,TFN,TPR

99. Beltran, Kimberly S; Pocsidio, Glorina N, and Beltran, Kimberly S. Acetylcholinesterase Activity in Corbicula Fluminea Mull., As a Biomarker of Organophosphate Pesticide Pollution in Pinacanauan River, Philippines. 2010 Jun; 165, (1-4): 331-340.   
Rec #: 4140  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organophosphates are known to inhibit the enzyme acetylcholinesterase. In this study, the AChE activity from the total soft tissues of Corbicula fluminea Mull. was used as a biomarker of organophosphate pollution in Pinacanauan River. Clams were collected from two different sites and at different seasons of the year. A colorimetric assay on the total soft tissues of the clams showed a directly proportional relationship between enzyme activity and condition of the riverine system. In vitro experiments on the total soft tissue, adductor muscles, digestive glands, and gills were conducted to assess the degree of localization of AChE as well as the sensitivity and tolerance of the enzymes in these tissues to varying concentrations of malathion. The degree of enzyme localization from highest to lowest is as follows: adductor muscle > gills > digestive gland whereas sensitivity to OP from greatest to least is: gills > adductor muscles > digestive gland.  
Keywords: digestive glands  
Keywords: Philippines  
Keywords: ENA 09:Land Use & Planning  
Keywords: Organophosphates  
Keywords: SW 3030:Effects of pollution  
Keywords: enzymatic activity  
Keywords: Pollution effects  
Keywords: Biomarkers  
Keywords: Q5 01502:Methods and instruments  
Keywords: Freshwater  
Keywords: Malathion  
Keywords: Agricultural Chemicals  
Keywords: Organophosphorus Pesticides  
Keywords: Pollution Abstracts; Environment Abstracts; Aqualine Abstracts; Water Resources Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality  
Keywords: Muscle  
Keywords: Gills  
Keywords: Rivers  
Keywords: Environmental monitoring  
Keywords: Bioindicators  
Keywords: Sensitivity  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Muscles  
Keywords: Enzymes  
Keywords: AQ 00003:Monitoring and Analysis of Water and Wastes  
Keywords: Clams  
Keywords: Water pollution  
Keywords: Digestive glands  
Keywords: Pesticides  
Keywords: Corbicula fluminea  
Keywords: Environmental conditions  
Keywords: Monitoring English. Date revised - 2010-06-01. Last updated - 2012-03-29. DOI - 6496aa61-6da8-4fc1-90edmfgefd107; 12851382; CS1028638; 0167-6369; 1573-2959. SubjectsTermNotLitGenreText - Rivers; Environmental monitoring; Digestive glands; Pesticides; Pollution effects; Biomarkers; Environmental conditions; Water pollution; Gills; Bioindicators; Sensitivity; digestive glands; Organophosphates; Muscles; enzymatic activity; Enzymes; Malathion; Organophosphorus Pesticides; Agricultural Chemicals; Muscle; Monitoring; Clams; Corbicula fluminea; Philippines; Freshwater

100. Ben Oujji, N.; Bakas, I.; Istambouli‚, G.; Ait-Ichou, I.; Ait-Addi, E.; Rouillon, R., and Noguer, T. Acetylcholinesterase Immobilized on Magnetic Beads for Pesticides Detection: Application to Olive Oil Analysis.   
Rec #: 8410  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: COMMENTS: Cites: Rev Environ Contam Toxicol. 1995;141:111-34 (medline /7886254)  
COMMENTS: Cites: Protein Eng. 2002 Jan;15(1):43-50 (medline /11842237)  
COMMENTS: Cites: Biochim Biophys Acta. 2002 May 20;1597(1):133-9 (medline /12009412)  
COMMENTS: Cites: Biochem Pharmacol. 1961 Jul;7:88-95 (medline /13726518)  
COMMENTS: Cites: Biochem J. 1950 Apr;46(4):451-60 (medline /15420172)  
COMMENTS: Cites: Anal Bioanal Chem. 2004 Oct;380(4):606-13 (medline /15448967)  
COMMENTS: Cites: Biosens Bioelectron. 2007 Nov 30;23(4):506-12 (medline /17826976)  
COMMENTS: Cites: Sensors (Basel). 2009;9(4):2976-99 (medline /22574058)  
COMMENTS: Cites: Talanta. 2009 Jul 15;79(2):507-11 (medline /19559912)  
COMMENTS: Cites: J Am Chem Soc. 2002 Sep 4;124(35):10290-1 (medline /12197726)  
COMMENTS: Cites: J Am Chem Soc. 2005 Mar 23;127(11):4060-70 (medline /15771543)  
ABSTRACT: This work presents the development of bioassays and biosensors for the detection of insecticides widely used in the treatment of olive trees. The systems are based on the covalent immobilisation of acetylcholinesterase on magnetic microbeads using either colorimetry or amperometry as detection technique. The magnetic beads were immobilised on screen-printed electrodes or microtitration plates and tested using standard solutions and real samples. The developed devices showed good analytical performances with limits of detection much lower than the maximum residue limit tolerated by international regulations, as well as a good reproducibility and stability.  
MESH HEADINGS: Acetylcholinesterase/\*metabolism  
MESH HEADINGS: Animals  
MESH HEADINGS: Biosensing Techniques  
MESH HEADINGS: Colorimetry  
MESH HEADINGS: Dimethoate/analogs &amp  
MESH HEADINGS: derivatives/analysis  
MESH HEADINGS: Electrochemical Techniques  
MESH HEADINGS: Enzymes, Immobilized/\*metabolism  
MESH HEADINGS: Inhibitory Concentration 50  
MESH HEADINGS: Insecticides/analysis/chemistry  
MESH HEADINGS: Kinetics  
MESH HEADINGS: \*Magnetics  
MESH HEADINGS: Malathion/analogs &amp  
MESH HEADINGS: derivatives/analysis  
MESH HEADINGS: \*Microspheres  
MESH HEADINGS: Organophosphates/analysis/chemistry  
MESH HEADINGS: Organothiophosphorus Compounds/analysis  
MESH HEADINGS: Pesticides/\*analysis/chemistry  
MESH HEADINGS: Plant Oils/\*chemistry  
MESH HEADINGS: Time Factors eng

101. Ben Oujji, N.; Bakas, I.; Istamboulie, G.; Ait-Ichou, I.; Ait-Addi, E.; Rouillon, R., and Noguer, T. Sol-gel immobilization of acetylcholinesterase for the determination of organophosphate pesticides in olive oil with biosensors. 2013; 30, 657-661.   
Rec #: 12240  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This paper presents the construction of amperometric biosensors for the detection of organophosphorus insecticides widely used in the treatment of olive trees. The systems are based on the immobilisation of acetylcholinesterase on screen-printed electrodes by bioencapsulation in a sol-gel composite. The enzyme activity was estimated by measuring the thiocholine produced by the enzymatic hydrolysis of the acetylthiocholine chloride using cobalt phtalocyanine as mediator. The developed devices have been used to carry out inhibition studies with three pesticides: malathion, methidathion and dimethoate (in their oxidized form), and tested using standard solutions and real samples of olive oil. These biosensors showed good operational stability as they maintained their initial analytical signal response during 10 successive measurements, and a good reproducibility with a relative standard deviation of 3%. The limits of detection of the developed devices were very compatible with the maximum residue limit tolerated by international regulations, they were as low as 10(-9) M for the widely used pesticide malaoxon(oxidized malathion). The developed sensors were successfully used for the determinations of insecticides in real samples of olive oil. (C) 2012 Elsevier Ltd. All rights reserved.  
Number of Volumes: 2  
ISI Document Delivery No.: 070TZ <Go to ISI>://CCC:000313535500048

102. Ben Rejeb, Ines; Arduini, Fabiana; Arvinte, Adina; Amine, Aziz; Gargouri, Mohamed; Micheli, Laura; Bala, Camelia; Moscone, Danila, and Palleschi, Giuseppe. Development of a bio-electrochemical assay for AFB1 detection in olive oil. 2009 Mar 15-; 24, (7): 1962-1968.   
Rec #: 1160  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: A novel biosensor assay format for aflatoxin based on acetylcholinesterase (AChE) inhibition by aflatoxin B1 (AFB1) is proposed. The AChE was present in solution and an amperometric choline oxidase biosensor was used for monitoring its residual activity. To create the biosensor, the choline oxidase was immobilized by cross-linking onto screen-printed electrodes modified with Prussian Blue (PB) and these were used to detect the H2O2 at low potential (ęĆ0.05 V versus a screen-printed internal silver pseudoreference electrode). Acetylcholinesterase/ Aflatoxin B1/ Inhibition/ Prussian Blue/ Screen-printed electrode/ Olive oil http://www.sciencedirect.com/science/article/pii/S0956566308005721

103. Bermudez-Saldana, J. M.; Escuber-Gilabert, L.; Medina-Hernandez, M. J.; Villaneuva-Camanas, R. M., and Sagrado, S. Chromatographic Evaluation of the Toxicity in Fish of Pesticides. 2005; 814, 115-125.   
Rec #: 50  
Keywords: MODELING,REFS CHECKED  
Call Number: NO MODELING (24D,24DXY,ADC,BMY,CBF,CBL,CMPH,CPY,CPYM,DCB,DCF,DCNA,DMT,DU,DZ,ES2,FNPP,LNR,MCPB,MCPP1,MDT,MLN,MLNR,MLT,MOM,MP,OML,PCBZ,PIRM,PMT,PPX,PRO,PSM,SZ,TBZ,TCF), NO REFS CHECKED (24D,24DXY,ADC,BMY,CBF,CBL,CMPH,CPY,CPYM,DCB,DCF,DCNA,DMT,DU,DZ,ES2,FNPP,LNR,MCPB,MCPP1,MDT,MLN,MLNR,MLT,MOM,MP,OML,PCBZ,PIRM,PMT,PPX,PRO,PSM,SZ,TBZ,TCF)  
Notes: Chemical of Concern: 24D,24DXY,ADC,AMTR,BMY,CBF,CBL,CMPH,CPY,CPYM,CZE,DCB,DCF,DCNA,DMT,DU,DZ,ES2,FMU,FNPP,FNTH,LNR,MCPA,MCPB,MCPP1,MDT,MLN,MLNR,MLT,MOM,MP,OML,PCBZ,PEB,PHSL,PIM,PIRM,PMT,PPX,PRO,PSM,SZ,TBZ,TCF,TCM

104. Bernstein, Brock; Moore, Bruce; Sharp, Grant; Smith, Robert, and Moore, Bruce. Assessing Urban Runoff Program Progress Through a Dry Weather Hybrid Reconnaissance Monitoring Design. 2009 Oct; 157, (1-4): 287-304.   
Rec #: 7380  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Characterizing dry weather conditions in urban Municipal Separate Storm Sewer Systems (MS4s), and then prioritizing and addressing problems due to urban pollutants, is a daunting challenge. The size and complexity of most MS4s and the ephemeral nature of many dry weather problems hamper efforts to identify and eliminate pollutant sources, and to track trends in condition. As a result, assessing overall program progress has proven difficult. We describe a hybrid dry weather urban monitoring design from southern California that combines probabilistic and targeted sampling to rigorously identify and prioritize problems and track program progress. Data from probabilistic sites define the urban background and establish tolerance intervals, which identify sites that persistently exceed the overall urban background. Targeted sites focus on locations where nearby activities and/or past history suggest that pollutant levels will be elevated. Embedding targeted monitoring within a probabilistic design enables data from targeted sites to be interpreted in a more meaningful regional context. Data from all sites are also used to construct site- and pollutant-specific control charts. These charts quickly identify instances where a site's behavior significantly changes, compared to its past behavior, suggesting an active source in the upstream drainage area. The hybrid design, and the use of formal statistical tools (tolerance intervals and control charts), permit the program to systematically prioritize problematic sites, compare conditions to the regional urban background, and track trends over time. In addition, the program's design allows several measures of program progress to be defined and thus consistently followed over time. Such hybrid designs can provide substantial advantages compared to more traditional monitoring approaches.  
Keywords: P 3000:SEWAGE & WASTEWATER TREATMENT  
Keywords: Pollution Abstracts; Environment Abstracts; Aqualine Abstracts; Water Resources Abstracts; ASFA 2: Ocean Technology Policy & Non-Living Resources; Environmental Engineering Abstracts; Meteorological & Geoastrophysical Abstracts  
Keywords: SW 3020:Sources and fate of pollution  
Keywords: ENA 05:Environmental Design & Urban Ecology  
Keywords: M2 551.5:General (551.5)  
Keywords: AQ 00003:Monitoring and Analysis of Water and Wastes  
Keywords: EE 10:General Environmental Engineering  
Keywords: Q2 02385:Hydrographic survey and cartography  
Keywords: Environmental Studies English. Date revised - 2010-02-01. Last updated - 2012-08-02. DOI - OB-MD-0010542190; 11237263; CS1069668; 0167-6369; 1573-2959

105. Beroiz, B.; Ortego, F.; Callejas, C.; Hernandez-Crespo, P.; Castanera, P., and Ochando, M. D. Genetic structure of Spanish populations of Ceratitis capitata revealed by RAPD and ISSR markers: implications for resistance management. 2012; 10, 815-825.   
Rec #: 12270  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The Mediterranean fruit fly, Ceratitis capitata (Wiedemann) (Diptera: Tephritidae), is considered one of the most economically damaging pests of citrus orchards in Spain. The characterization of C. capitata population structure, at a large geographical scale, by using a combination of RAPD and ISSR markers can allow analyzing the genetic variability of this species, and provide some insight in decision making for resistance management, recently recorded in Spain. We compared six Spanish populations along the Mediterranean area (Gerona, Amposta, Tortosa, Castellon, Valencia and Malaga) with populations from other geographical areas where this pest is widely distributed (Africa, Middle East, South America and Atlantic Islands) and two laboratory strains. The results obtained with both types of molecular markers were similar. A dendrogram based on Nei genetic distances showed that all Mediterranean Spanish populations, except the population collected in Gerona, were clearly separated from the rest. However, no clear differentiation among Spanish populations was found, probably as a result of the high levels of gene flow (Nm value of 2.8 for RAPD and 3.9 for ISSR). Implications of these findings on resistance management of C. capitata are discussed.  
Number of Volumes: 3  
ISI Document Delivery No.: 994HP <Go to ISI>://CCC:000307921800028

106. Bian, W. J.; Xu, Y.; Li, S. N., and Zhu, G. N. Desulfuration of Chlorpyrifos, Parathion, and Malathion by Hepatic Cytochrome P450 in Four Species of Fish. The Institution of Pesticide and Environmental Toxicology, Zhejiang University, Hangzhou 310029, China,//: 2011; 30, (7): 1282-1288(CHI) (ENG ABS).   
Rec #: 1790  
Keywords: NON-ENGLISH  
Call Number: NON-ENGLISH (CPY,MLN)  
Notes: Chemical of Concern: CPY,EPRN,MLN,PRN

107. Biswas, S.; Upadhyay, K. D., and Kumar, A. Efficacy of Some Insecticides Alone and in Combination with Dipel (a Bacterial Formulation) Against Spilosoma obliqua Walker. 1995; 81, (2): 227-235.   
Rec #: 60  
Keywords: NO CONC  
Call Number: NO CONC (CYP,ES,FNV,MLN)  
Notes: Chemical of Concern: CYP,ES,FNV,MLN

108. Black, C. T. and Zorb, G. L. Effect of Malathion Sprays on Penned Pheasants. WEINGARE@state.mi.us//Emily Weingatz, P.O. Box 30457, Lansing, MI 48909//: 1965.  
Rec #: 470  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

109. ---. Field Survey of Large-Scale Malathion Application. 1965: 16-(Publ as 69466).   
Rec #: 70  
Keywords: PUBL AS  
Call Number: NO PUBL AS (MLN)  
Notes: Chemical of Concern: MLN

110. ---. The Insecticide Malathion - Is it Safe for Birds? 1967: 1 p.(ABS).   
Rec #: 1640  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN

111. Bo, L-Y; Zhao, X-H, and Bo, L-Y. Degradation Kinetics of Seven Organophosphorus Pesticides in Yoghurt and Cheese in Yoghurt and Cheese During Fermentation. 2010; 38, (8): 22-25.   
Rec #: 7190  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The degradation behaviors of seven organophosphorus pesticides, including denthion, dimethoate, malathion, methyl parathion, monocrotophos, phorate and trichlorphon, was studied with gas chromatograph (GC)-technique for the prepared yoghurt and cheese samples during fermentation to study their degradation kinetics. The results showed that seven pesticides in bovine milk at 42 C degraded and had half live period ranging from 11.0 to 16.7 h, but degraded fast in two yoghurt samples and had the lowered half live period ranging from 9.6 to 14.6 h or 10.0 to 15.9 h, implying two lactic bacteria starters applied accelerated the degradation of seven pesticides clearly. When the cheese prepared was fermented for 120 d with lactic bacteria, the amount of seven pesticides decreased with the level of 17 to 62%. Our work declared that lactic bacteria fermentation might provide better safety grantee to dairy products.  
Keywords: Pesticides (organophosphorus)  
Keywords: Fermentation  
Keywords: phorate  
Keywords: Dairy products  
Keywords: monocrotophos  
Keywords: W 30935:Food Biotechnology  
Keywords: Cheese  
Keywords: Malathion  
Keywords: Cow's milk  
Keywords: Kinetics  
Keywords: Dairy industry  
Keywords: Microbiology Abstracts A: Industrial & Applied Microbiology; Biotechnology and Bioengineering Abstracts  
Keywords: A 01330:Food Microbiology  
Keywords: Dimethoate  
Keywords: Methyl parathion Chinese. Date revised - 2011-01-01. Last updated - 2012-03-29. DOI - MD-0014967531; 13920849; 1001-2230. SubjectsTermNotLitGenreText - Cow's milk; Pesticides (organophosphorus); phorate; Fermentation; Dairy industry; Kinetics; monocrotophos; Dairy products; Methyl parathion; Dimethoate; Cheese; Malathion

112. Bookhout, C. G. and Costlow, J. D. Jr. Effects of Mirex, Methoxychlor, and Malathion on Development of Crabs. 1976: 85 p. (NTIS/PB-252007).   
Rec #: 1110  
Keywords: PUBL AS  
Call Number: NO PUBL AS (MLN)  
Notes: Chemical of Concern: MLN,MRX,MXC

113. Borras, E; Sanchez, P; Munoz, a; Tortajada-Genaro, La, and Borras, E. Development of a Gas Chromatography-Mass Spectrometry Method for the Determination of Pesticides in Gaseous and Particulate Phases in the Atmosphere. 2011 Aug 5; 699, (1): 57-65.   
Rec #: 6230  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A reliable multi-residue method for determining gaseous and particulate phase pesticides in atmospheric samples has been developed. This method, based on full scan gas chromatography-mass spectrometry (GC-MS), allowed the proper determination of sixteen relevant pesticides, in a wide range of concentrations and without the influence of interferences. The pesticides were benfluralin, bitertanol, buprofezin, chlorfenvinphos, chlorpyrifos, chlorpyrifos-methyl, ethalfluralin, fenthion, lindane, malathion, methidathion, propachlor, propanil, pyriproxifen, tebuconazol and trifluralin. Comparisons of two types of sampling filters (quartz and glass fibre) and four types of solid-phase cartridges (XAD-2, XAD-4, Florisil and Orbo-49P) showed that the most suitable supports were glass fibre filter for particulate pesticides and XAD-2 and XAD-4 cartridges for gaseous pesticides (95% recovery). Evaluations of elution solvents for ultrasonic-assisted extraction demonstrated that isooctane is better than ethylacetate, dichloromethane, methanol or a mixture of acetone:hexane (1:1). Recovery assays and the standard addition method were performed to validate the proposed methodology. Moreover, large simulator chamber experiments allowed the best study of the gas-particle partitioning of pesticides for testing the sampling efficiency for the validation of an analytical multiresidue method for pesticides in air. Satisfactory analytical parameters were obtained, with a repeatability of 5 +/- 1%, a reproducibility of 13 +/- 3% and detection limits of 0.05-0.18 pg m super(-3 for the particulate phase and 26-88 pg m) super(-)3 for the gaseous phase. Finally, the methodology was successfully applied to rural and agricultural samples in the Mediterranean area.  
Keywords: Solvents  
Keywords: Lindane  
Keywords: Particulates  
Keywords: M2 551.508:Instruments (551.508)  
Keywords: Spectrometry  
Keywords: Filters  
Keywords: Chlorpyrifos  
Keywords: Environment Abstracts; Meteorological & Geoastrophysical Abstracts  
Keywords: MED  
Keywords: Pesticides  
Keywords: Air sampling  
Keywords: Trifluralin  
Keywords: ENA 01:Air Pollution English. Date revised - 2011-08-01. Last updated - 2012-03-29. DOI - 9f67d2c5-439c-4dfd-bc05csaobj201; 15309616; 0003-2670. SubjectsTermNotLitGenreText - Spectrometry; Chlorpyrifos; Filters; Pesticides; Solvents; Air sampling; Trifluralin; Lindane; Particulates; MED

114. Bowman, Jeff R. and McDonald, Thomas J. Reliability of the Eclox Enhanced Chemiluminescence Assay for Rapid Field Testing of Drinking Water. 2010.  
Rec #: 8090  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The reliability of the Eclox enhanced chemiluminescence (ECL) assay to detect sublethal toxicity was evaluated for its potential use as a rapid field testing procedure for contamination in drinking water. Water samples were collected weekly from six Texas Public Water Systems and analyzed with the Eclox ECL method for a twelve week period. Unspiked samples established a baseline to compare against samples spiked with cyanide, ethylene glycol, and Malathion at various sub-lethal concentrations. The reliability and reproducibility of the Eclox ECL method is robust, however, the method's ability to positively detect sub-lethal concentrations for the three contaminants in treated drinking water was inconclusive. Various factors such as natural water chemistry, purification chemicals, and the byproducts of disinfection reaction may explain why the ECL process is unable to detect these sub-lethal concentrations. This research suggests that a more detailed chemical analysis of the variations of the natural water chemistry be carried out to assess the suitability of this technique to treated drinking water.  
Start Page: 163  
ISSN/ISBN: 9781109690132  
Keywords: 0486:Analytical chemistry  
Keywords: Environmental Health  
Keywords: Environmental science  
Keywords: Analytical chemistry  
Keywords: Toxicity  
Keywords: Water  
Keywords: Eclox  
Keywords: 0768:Environmental science  
Keywords: 0470:Environmental Health  
Keywords: Assay  
Keywords: Health and environmental sciences  
Keywords: Chemiluminescence  
Keywords: Pure sciences  
Keywords: ECL English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2010. Last updated - 2012-09-10. DOI - 1999450001; 51510041; 66569; 9781109690132; 1474583. First page - n/a

115. Bradford, D. F.; Knapp, R. A.; Sparling, D. W.; Nash, M. S.; Stanley, K. A.; Tallent-Halsell, N. G.; McConnell, L. L., and Simonich, S. M. PESTICIDE DISTRIBUTIONS AND POPULATION DECLINES OF CALIFORNIA, USA, ALPINE FROGS, RANA MUSCOSA AND RANA SIERRAE. 2011; 30, 682-691.   
Rec #: 12330  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Atmospherically deposited pesticides from the intensively cultivated Central Valley of California, USA, have been implicated as a cause for population declines of several amphibian species, with the strongest evidence for the frogs Rana muscosa and Rana sierrae at high elevation in the Sierra Nevada mountains. Previous studies on these species have relied on correlations between frog population status and either a metric for amount of upwind pesticide use or limited measurements of pesticide concentrations in the field. The present study tested the hypothesis that pesticide concentrations are negatively correlated with frog population status (i.e., fraction of suitable water bodies occupied within 2 km of a site) by measuring pesticide concentrations in multiple media twice at 28 sites at high elevation in the southern Sierra Nevada. Media represented were air, sediment, and Pseudacris sierra tadpoles. Total cholinesterase (ChE), which has been used as an indicator for organophosphorus and carbamate pesticide exposure, was also measured in P. sierra tadpoles. Results do not support the pesticide-site occupancy hypothesis. Among 46 pesticide compounds analyzed, nine were detected with >= 30% frequency, representing both historically and currently used pesticides. In stepwise regressions with a chemical metric and linear distance from the Central Valley as predictor variables, no negative association was found between frog population status and the concentration of any pesticide or tadpole ChE activity level. By contrast, frog population status showed a strong positive relationship with linear distance from the Valley, a pattern that is consistent with a general west-to-east spread across central California of the amphibian disease chytridiomycosis observed by other researchers. Environ. Toxicol. Chem. 2011:30:682-691. (C) 2011 SETAC  
Number of Volumes: 3  
ISI Document Delivery No.: 728UA <Go to ISI>://CCC:000287898800020

116. Bradman, a S a and Bradman, A S A. Pesticides and Their Metabolites in the Homes and Urine of Farmworker Children Living in the Salinas Valley, Ca. 2009 Nov; 19, (7): 694-695.   
Rec #: 7330  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Urine  
Keywords: valleys  
Keywords: H 5000:Pesticides  
Keywords: Pesticides  
Keywords: agriculture  
Keywords: Metabolites  
Keywords: Toxicology Abstracts; Health & Safety Science Abstracts; Environmental Engineering Abstracts  
Keywords: EE 10:General Environmental Engineering  
Keywords: Children  
Keywords: X 24330:Agrochemicals  
Keywords: Environmental Studies English. Date revised - 2010-02-01. Last updated - 2011-11-08. DOI - OB-MD-0010787952; 11222698; 1559-0631. SubjectsTermNotLitGenreText - Pesticides; Children; Metabolites; agriculture; Urine; valleys

117. Brain, R. A. and Solomon, K. R. Comparison of the Hazards Posed to Amphibians by the Glyphosate Spray Control Program Versus the Chemical and Physical Activities of Coca Production in Colombia. richard.brain@syngenta.com//: 2009; 72, (15/16): 937-948.   
Rec #: 1040  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (24D,24DXY,ATZ,CBD,CBF,CBL,CPY,CYP,DZ,ES,GYP,LCYT,MLN,MOM,MP,MZB,PQT), NO REVIEW (24D,24DXY,ATZ,CBD,CBF,CBL,CPY,CYP,DZ,ES,GYP,LCYT,MLN,MOM,MP,MZB,PQT)  
Notes: Chemical of Concern: 24D,24DXY,ATZ,CBD,CBF,CBL,CPY,CYP,DZ,ES,GYP,LCYT,MLN,MOM,MP,MZB,PQT

118. Bruhl, C. A.; Pieper, S., and Weber, B. AMPHIBIANS AT RISK? SUSCEPTIBILITY OF TERRESTRIAL AMPHIBIAN LIFE STAGES TO PESTICIDES. 2011; 30, 2465-2472.   
Rec #: 12400  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Current pesticide risk assessment does not specifically consider amphibians. Amphibians in the aquatic environment (aquatic life stages or postmetamorphic aquatic amphibians) and terrestrial living juvenile or adult amphibians are assumed to be covered by the risk assessment for aquatic invertebrates and fish, or mammals and birds, respectively. This procedure has been evaluated as being sufficiently protective regarding the acute risk posed by a number of pesticides to aquatic amphibian life stages (eggs, larvae). However, it is unknown whether the exposure and sensitivity of terrestrial living amphibians are comparable to mammalian and avian exposure and sensitivity. We reviewed the literature on dermal pesticide absorption and toxicity studies for terrestrial life stages of amphibians, focusing on the dermal exposure pathway, that is, through treated soil or direct overspray. In vitro studies demonstrated that cutaneous absorption of chemicals is significant and that chemical percutaneous passage, P (cm/h), is higher in amphibians than in mammals. In vivo, the rapid and substantial uptake of the herbicide atrazine from treated soil by toads (Bufo americanus) has been described. Severe toxic effects on various amphibian species have been reported for field-relevant application rates of different pesticides. In general, exposure and toxicity studies for terrestrial amphibian life stages are scarce, and the reported data indicate the need for further research, especially in light of the global amphibian decline. Environ. Toxicol. Chem. 2011;30:2465-2472. (C) 2011 SETAC  
Number of Volumes: 11  
ISI Document Delivery No.: 837UQ <Go to ISI>://CCC:000296230300010

119. Brundage, Kathleen M. and Barnett, John B. Chapter 15 - Immunotoxicity of Pesticides. Robert Krieger. Hayes' Handbook of Pesticide Toxicology (Third Edition). New York: Academic Press; 2010: 483-497.   
Rec #: 890  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: ISSN/ISBN: 978-0-12-374367-1 http://www.sciencedirect.com/science/article/pii/B978012374367100015X

120. Cajka, Tomas; Sandy, Chris; Bachanova, Veronika; Drabova, Lucie; Kalachova, Kamila; Pulkrabova, Jana, and Hajslova, Jana. Streamlining sample preparation and gas chromatographyÇôtandem mass spectrometry analysis of multiple pesticide residues in tea. 2012 Sep 19-; 743, (0): 51-60.   
Rec #: 1500  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: In this work, a new rapid method for the determination of 135 pesticide residues in green and black dry tea leaves and stalks employing gas chromatography coupled to tandem mass spectrometry (GCÇôMS/MS) with a triple quadrupole was developed and validated. A substantial simplification of sample processing prior to the quantification step was achieved: after addition of water to a homogenised sample, transfer of analytes into an acetonitrile layer was aided by the addition of inorganic salts. Bulk co-extracts, contained in the crude organic extract obtained by partition, were subsequently removed by liquidÇôliquid extraction using hexane with the assistance of added 20% (w/w) aqueous NaCl solution. The importance of matrix hydration prior to the extraction for achieving good recoveries was demonstrated on tea samples with incurred pesticide residues. For most of the analytes, recoveries in the acceptable range of 70Çô120% and repeatabilities (relative standard deviations, RSDs) ëñ20% were achieved for both matrices at spiking levels of 0.01, 0.1 and 1 mg kgêÆ1. Under optimised GCÇôMS/MS conditions, most of the analytes gave lowest calibration level ëñ0.01 mg kgêÆ1, permitting the control at the maximum residue levels (MRLs) laid down in Regulation (EC) No 396/2005. The developed method was successfully applied to the determination of pesticide residues in real tea samples. Tea/ Pesticide residues/ Sample preparation/ Gas chromatography (GC)/ Tandem mass spectrometry (MS/MS) http://www.sciencedirect.com/science/article/pii/S000326701201001X

121. Calaf, Gloria M; Echiburu-Chau, Carlos, and Roy, Debasish. Organophosphorous Pesticides and Estrogen Induce Transformation of Breast Cells Affecting P53 and C-Ha-Ras Genes. 2009 Nov; 35, (5): 1061-1068.   
Rec #: 4600  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Cancer progression has been associated with an increase in genomic instability indicated by inactivation of tumor suppressor genes and activation of oncogenes. Epidemiological and experimental evidence has implicated estrogens in the etiology of breast cancer. To study environmental organophosphorous pesticides is of interest since evidence indicate that pesticides may enhance cell division, increasing the risk of breast cancer. The aim was to evaluate the effects of these pesticides, such as parathion and malathion in the presence of estrogen on malignant transformation as well as on genomic instability, that is in the frequency of loss of heterozygosity (LOH) and microsatellite instability (MSI). The MCF-10F immortalized human breast epithelial cell line, that was treated with parathion or malathion alone and in combination with estrogen was used. These studies indicated that either pesticide alone or in combination with estrogen induced malignant transformation as shown by anchorage-independent growth capability and invasive characteristics in comparison to control. Such malignant phenotypic characteristics were corroborated by significant (P<0.05) increase in p53 and c-Ha-ras protein expression. Results indicated different degrees of allelic imbalance in the form of LOH or MSI with different microsatellite markers. MSI was found in malathion and estrogen-treated cells with a marker used for p53 tumor suppressor gene at loci 17p13.1. The same combination of substances presented MSI with a marker used for c-Ha-ras mapped in chromosome 11p14.1, as well as mutations in c-Ha-ras for codons 12 and 61. LOH was observed in codon 12 in the presence of estrogen or malathion alone. Parathion alone and combined with estrogen induced MSI in codon 61. It can be concluded that the organophosphorous pesticides parathion and malathion induced malignant transformation of breast cells through genomic instability altering p53 and c-Ha-ras, considered pivotal to cancer process.  
Keywords: Genes, p53 -- drug effects  
Keywords: Humans  
Keywords: Parathion -- toxicity  
Keywords: Estrogens -- toxicity  
Keywords: Malathion  
Keywords: Pesticides -- toxicity  
Keywords: Organophosphorus Compounds  
Keywords: Cell Transformation, Neoplastic -- chemically induced  
Keywords: Cell Line, Transformed  
Keywords: 56-38-2  
Keywords: Loss of Heterozygosity -- drug effects  
Keywords: Breast Neoplasms -- genetics  
Keywords: Estrogens  
Keywords: Genes, ras -- drug effects  
Keywords: DNA Mutational Analysis  
Keywords: Index Medicus  
Keywords: Microsatellite Instability -- drug effects  
Keywords: Polymerase Chain Reaction  
Keywords: Blotting, Western  
Keywords: Epithelial Cells -- drug effects  
Keywords: 0  
Keywords: Pesticides  
Keywords: Organophosphorus Compounds -- toxicity  
Keywords: 121-75-5  
Keywords: Malathion -- toxicity  
Keywords: Female  
Keywords: Parathion eng. Date completed - 2009-12-16. Date created - 2009-09-29. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-19787260; 19787260; 1791-2423

122. Calaf, Gloria M and Echiburăş-Chau, Carlos. Synergistic Effect of Malathion and Estrogen on Mammary Gland Carcinogenesis. 2012 Aug; 28, (2): 640-646.   
Rec #: 2580  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Breast cancer is the most frequent malignancy diagnosed in women and isa classical model of hormone-dependent malignancy. Over the past 15-20 years, epidemiological studies have pointed to an increased breast cancer risk associatedwith prolonged exposure to female hormones. On the other hand, environmental chemicalssuch as malathion, an organophosphorous pesticide used to control a wide range of sucking and chewing pests of field crops, may be involved in the etiology of breast cancers. Results indicated that estrogen alone increased average numberof lobules per mm2 of rat mammary glands in comparison to control and malathion alone at 30, 124, 240 and 400 days after 5-day treatments. On the other hand, malathion alone significantly increased the number of ducts in stage of proliferation at 10-240 days after 5-day treatments. Furthermore, markers for cancer detection such as mutant p53, c-myc, c-fos and CYPs proteins were overexpressed after treatments. Atropine, an anticholinergic drug, counteracted these effects when it was combined with malathion under similar conditions. The combination of malathion and estrogen synergistically increased number of lobules and ducts per mm2 of rat mammary glandsafter treatments and inducing mammary cancer. It can be concluded that combination of an environmental substance such as the pesticide malathion and an endogenous substance such as estrogen can enhance the deleterious effects in human mammary glands inducing cancer and atropine is able to diminish these effects.  
Keywords: 51-55-8  
Keywords: Animals  
Keywords: Mammary Glands, Animal -- drug effects  
Keywords: Mammary Neoplasms, Experimental -- metabolism  
Keywords: Malathion  
Keywords: Estrogens -- toxicity  
Keywords: Mammary Neoplasms, Experimental -- pathology  
Keywords: Pesticides -- toxicity  
Keywords: Rats  
Keywords: Mammary Neoplasms, Experimental -- chemically induced  
Keywords: Insecticides  
Keywords: Drug Synergism  
Keywords: Atropine -- pharmacology  
Keywords: Insecticides -- toxicity  
Keywords: Estrogens  
Keywords: Index Medicus  
Keywords: Cell Growth Processes -- drug effects  
Keywords: Rats, Sprague-Dawley  
Keywords: 0  
Keywords: Mammary Glands, Animal -- metabolism  
Keywords: Mammary Glands, Animal -- pathology  
Keywords: Pesticides  
Keywords: 121-75-5  
Keywords: Female  
Keywords: Malathion -- toxicity  
Keywords: Atropine eng. Date completed - 2013-01-24. Date created - 2012-06-19. Date revised - 2013-01-28. Last updated - 2013-01-28. DOI - MEDL-22614519; 22614519; 1791-2431

123. Camino-Sanchez, F J; Zafra-Gomez, Alberto; Perez-Trujillo, J P; Conde-Gonzalez, Je; Marques, J C; Vilchez, Jose Luis, and Camino-Sanchez, F J. Validation of a Gc-Ms/Ms Method for Simultaneous Determination of 86 Persistent Organic Pollutants in Marine Sediments by Pressurized Liquid Extraction Followed by Stir Bar Sorptive Extraction. 2011 Aug; 84, (7): 869-881.   
Rec #: 6240  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A multiresidue method for the analysis of 86 persistent pollutants in marine sediments at ultra-trace level has been developed and validated using pressurized liquid extraction (PLE) and stir-bar sorptive extraction (SBSE) coupled with thermal desorption and gas chromatography-triple quadrupole mass spectrometry (TD-GC-MS/MS QqQ). The compounds analyzed belong to various families such as polychlorinated biphenyls, polycyclic aromatic hydrocarbons, polybrominated diphenylethers, organophosphorus and organochlorine pesticides and other pesticides such as urons, and triazines. The analytes have very different polarities and log  
Keywords: ASFA 2: Ocean Technology Policy & Non-Living Resources; Environment Abstracts; Pollution Abstracts; Oceanic Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality  
Keywords: Environmental Studies English. Date revised - 2012-01-01. Last updated - 2012-01-05. DOI - OB-4232f345-b0b4-4090-b53acsaobj201; 15379909; 0045-6535

124. Camp+ás, M+ nica; Prieto-Sim+¦n, Beatriz, and Marty, Jean-Louis. A review of the use of genetically engineered enzymes in electrochemical biosensors: A Special Edition on Biosensors and Development of Pigment Cells and Pigment Patterns. 2009 Feb; 20, (1): 3-9.   
Rec #: 1570  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: This article gives an overview of the electrochemical biosensors that incorporate genetically modified enzymes. Firstly, the improvements on the sensitivity and selectivity of biosensors that integrate mutated enzymes are summarised. Next, new trends focused on the oriented immobilisation of mutated enzymes through specific functional groups located at their surface are reviewed. Finally, the effect of enzyme mutations on the electron transfer distance and kinetics of electrochemical biosensors is described. Genetically engineered enzyme/ Mutation/ Electrochemical biosensor/ Oriented immobilisation/ Electron transfer http://www.sciencedirect.com/science/article/pii/S1084952109000135

125. Carafa, Roberta; Faggiano, Leslie; Real, Montserrat; Munne, Antoni; Ginebreda, Antoni; Guasch, Helena; Flo, Monica; Tirapu, Luis; Der Ohe, Peter Carsten Von, and Carafa, Roberta. Water Toxicity Assessment and Spatial Pollution Patterns Identification in a Mediterranean River Basin District. Tools for Water Management and Risk Analysis. 2011 Sep 15; 409, (20): 4269-4279.   
Rec #: 6170  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In compliance with the requirements of the EU Water Framework Directive, monitoring of the ecological and chemical status of Catalan river basins (NE Spain) is carried out by the Catalan Water Agency.The large amount of data collected and the complex relationships among the environmental variables monitored often mislead data interpretation in terms of toxic impact, especially considering that even pollutants at very low concentrations might contribute to the total toxicity.The total dataset of chemical monitoring carried out between 2007 and 2008 (232 sampling stations and 60 pollutants) has been analyzed using sequential advanced modeling techniques. Data on concentrations of contaminants in water were pre-treated in order to calculate the bioavailable fraction, depending on substance properties and local environmental conditions.The resulting values were used to predict the potential impact of toxic substances in complex mixtures on aquatic biota and to identify hot spots. Exposure assessment with Species Sensitivity Distribution (SSD) and mixture toxicity rules were used to compute the multi-substances Potentially Affected Fraction (msPAF).The combined toxicity of the pollutants analyzed in the Catalan surface waters might potentially impact more than 50% of the species in 10% of the sites.In order to understand and visualize the spatial distribution of the toxic risk, Self Organising Map (SOM), based on the Kohonen's Artificial Neural Network (ANN) algorithm, was applied on the output data of these models. Principal Component Analysis (PCA) was performed on top of Neural Network results in order to identify main influential variables which account for the pollution trends. Finally, predicted toxic impacts on biota have been linked and correlated to field data on biological quality indexes using macroinvertebrate and diatom communities (IBMWP and IPS). The methodology presented could represent a suitable tool for water managers in environmental risk assessment and management.  
Keywords: Artificial intelligence  
Keywords: Principal component analysis  
Keywords: Risk analysis  
Keywords: M2 556:General (556)  
Keywords: Toxic substances  
Keywords: Spatial distribution  
Keywords: Neural networks  
Keywords: Surface water  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Spain  
Keywords: Bacillariophyceae  
Keywords: Algorithms  
Keywords: River basins  
Keywords: Toxicity  
Keywords: Risk Abstracts; Environment Abstracts; Meteorological & Geoastrophysical Abstracts; Pollution Abstracts  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Environmental Studies  
Keywords: Bioavailability  
Keywords: Biota  
Keywords: Water management  
Keywords: neural networks  
Keywords: R2 23050:Environment English. Date revised - 2012-01-01. Last updated - 2012-08-02. DOI - OB-b3b16789-8ef3-46af-81f6csamfg201; 15619636; 0048-9697. SubjectsTermNotLitGenreText - Principal component analysis; Spatial distribution; Water management; Neural networks; Algorithms; River basins; Bioavailability; Artificial intelligence; Risk analysis; Biota; Toxic substances; Surface water; neural networks; Toxicity; Bacillariophyceae; Spain

126. Carlson, R. M. and Caple, R. Chemical/Biological Implications of Using Chlorine and Ozone for Disinfection. 1977: 88 p. (NTIS/PB-270694) (Published as Ecoref 2120)//.   
Rec #: 1020  
Keywords: PUBL AS  
Call Number: NO PUBL AS (1Major ions,26XYL,Halides,LIM,MCRE,MLN,MOL,MgCl2,OCRE,PCRE)  
Notes: Chemical of Concern: 1Major ions,24DC,26XYL,2CP,4NP,BNZ,Halides,K ion,LIM,MCRE,MLN,MOL,MXC,MgCl2,MgSO4,MgSO4s,NHCl,NPH,OCRE,PCRE,PL

127. Carneiro, Raphaella P.; Oliveira, Fabiano A. S.; Madureira, Fernando D.; Silva, Gilsara; de Souza, Wesley R., and Lopes, Renata Pereira. Development and method validation for determination of 128 pesticides in bananas by modified QuEChERS and UHPLCÇôMS/MS analysis. 2013 Oct; 33, (2): 413-423.   
Rec #: 1510  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: A multiresidue method for the quantification of 128 pesticides in banana is described. It involves the application of a modified QuEChERS procedure followed by UHPLCÇôMS/MS (Ultra High Performance Liquid Chromatography coupled to Tandem Mass Spectrometry) analysis. The method was validated according to the European Union SANCO/12495/2011 guidelines and Brazilian Manual of Analytical Quality Assurance. The validation levels were 10.0; 25.0; 50.0 and 100-á++g-ákgêÆ1. Acceptable values were-áobtained for the following parameters: linearity, limit of detection Çô LOD (5.00-á++g-ákgêÆ1) and-álimit-áof quantification Çô LOQ (10.0-á++g-ákgêÆ1), except for fenamiphos and mevinphos (LOD-á=-á7.5-á++g-ákgêÆ1 and-áLOQ-á=-á25-á++g-ákgêÆ1), trueness (for the levels: 10.0, 25.0, 50.0 and 100-á++g-ákgêÆ1 the recovery assays values were between 70 and 120%) except for methamidophos at 10-á++g-ákgêÆ1 level (67.5%), intermediate precision (&lt;20.0%) and measurement uncertainty tests (&lt;50.0%). These results demonstrate the applicability of this method in the routine practice by the laboratories of Ministry of Agriculture, Livestock and Food Supply of Brazil that attend the National Control Plan for Residues and Contaminants (PNCRC). Pesticides/ Banana/ QuEChERS/ UHPLCÇôMS/MS http://www.sciencedirect.com/science/article/pii/S0956713513001035

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Rec #: 1530  
Keywords: REVIEW  
Call Number: NO REVIEW (ATZ,CPY,ES,MLN,MTL)  
Notes: Chemical of Concern: ATZ,CPY,ES,MLN,MTL

129. Carter, Wayne G.; Tarhoni, Mabruka H., and Ray, David E. Analytical approaches to investigate proteinÇôpesticide adducts: BIOANALYSIS OF ORGANOPHOSPHORUS TOXICANTS AND CORRESPONDING ANTIDOTES. 2010 May 15-; 878, (17Çô18): 1312-1319.   
Rec #: 1190  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Organophosphorus pesticides primarily elicit toxicity via their common covalent adduction of acetylcholinesterase (AChE), but pesticide binding to additional sensitive secondary targets may also compromise health. We have utilised tritiated-diisopropylfluorophosphate (3H-DFP) binding to quantify the levels of active immune and brain tissue serine hydrolases, and visualise them using autoradiography after protein separation by one-dimensional and two-dimensional techniques. Preincubation of protein extracts with pesticide in vitro or dosing of rats with pesticide in vivo was followed by 3H-DFP radiolabelling. Pesticide targets were identified by a reduction in 3H-DFP radiolabelling relative to controls, and characterised by their tissue presence, molecular weight, and isoelectric point. Conventional column chromatography was employed to enrich pesticide targets to enable their further characterisation, and/or identification by mass spectrometry. The major in vivo pesticide targets characterised were 66 kDa, serum albumin, and 60 kDa, likely carboxylesterase 1, both of which displayed differential pesticide binding character under conditions producing approximately 30% tissue AChE inhibition. The characterisation and identification of sensitive pesticide secondary targets will enable an evaluation of their potential contribution to the ill health that may arise from chronic low-dose pesticide exposures. Additionally, secondary targets may provide useful biomonitors and/or bioscavengers of pesticide exposures. Organophosphorus pesticide/ Neurotoxicity/ Immunotoxicity/ Serine hydrolase/ Diisopropylfluorophosphate/ Protein adduct/ Biomarker/ Low-dose exposure/ Proteomics/ Albumin/ Carboxylesterase 1 http://www.sciencedirect.com/science/article/pii/S1570023209007211

130. Casares, F. M. Endogenous Morphine in the Lobster Homarus americanus (Coupling to Nitric Oxide Production and Neuroimmune Modulation in Response to Stress). 2005: 129 p. (UMI# 3206473).   
Rec #: 1560  
Keywords: IN VITRO,REFS CHECKED  
Call Number: NO IN VITRO (BAD,MLN,PMR,RSM), NO REFS CHECKED (BAD,MLN,PMR,RSM)  
Notes: Chemical of Concern: BAD,MLN,MPH,PMR,PPCP,PPCP2011,RSM

131. Castorina, Rosemary; Bradman, Asa; Fenster, Laura; Barr, Dana Boyd; Bravo, Roberto; Vedar, Michelle G; Harnly, Martha E; Mckone, Thomas E ; Eisen, Ellen a; Eskenazi, Brenda, and Eskenazi, Brenda. Comparison of Current-Use Pesticide and Other Toxicant Urinary Metabolite Levels Among Pregnant Women in the Chamacos Cohort and Nhanes. 2010 Feb 3; 118, (6): 856-863.   
Rec #: 7140  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: We measured 34 metabolites of current-use pesticides and other precursor compounds in urine samples collected twice during pregnancy from 538 women living in the Salinas Valley of California, a highly agricultural area (1999-2001). Precursors of these metabolites included fungicides, carbamate, organochlorine, organophosphorus (OP), and pyrethroid insecticides, and triazine and chloroacetanilide herbicides. We also measured ethylenethiourea, a metabolite of the ethylene-bisdithiocarbamate fungicides. Repeat measurements of the compounds presented here have not been reported in pregnant women previously. To understand the impact of the women's regional environment on these findings, we compared metabolite concentrations from the CHAMACOS (Center for the Health Assessment of Mothers and Children of Salinas) cohort with U.S. national reference data for 342 pregnant women sampled by the National Health and Nutrition Examination Survey (1999-2002). The eight metabolites detected in > 50% of samples [2,4-dichlorophenol (2,4-DCP); 2,5-dichlorophenol (2,5-DCP); 1- and 2-naphthol; ortho-phenylphenol (ORTH); para-nitrophenol (PNP); 2,4,6-trichlorophenol (2,4,6-TCP); and 3,4,6-trichloro-2-pyridinol (TCPy)] may be related to home or agricultural pesticide use in the Salinas Valley, household products, and other sources of chlorinated phenols. More than 78% of women in this study had detectable levels of at least one of the OP pesticide-specific metabolites that we measured, and > 30% had two or more. The 95th percentile values of six of the most commonly detected (> 50%) compounds were significantly higher among the CHAMACOS women after controlling for age, race, socioeconomic status, and smoking [(2,4-DCP; 2,5-DCP; ORTH; PNP; 2,4,6-TCP; and TCPy); quantile regression p & 0.05]. Findings suggest that the CHAMACOS cohort has an additional burden of precursor pesticide exposure compared with the national sample, possibly from living and/or working in an agricultural area.  
Keywords: Microbiology Abstracts A: Industrial & Applied Microbiology; Toxicology Abstracts; Pollution Abstracts; Environment Abstracts  
Keywords: Environmental Studies English. Date revised - 2010-08-01. Last updated - 2012-08-08. DOI - OB-df0d5672-4d0c-4ea4-9e69csamfg201; 13316847; 0091-6765; 1552-9924

132. Chandak, Navneet; Bhardwaj, Jitender K.; Sharma, Rajnesh K., and Sharma, Pawan K. Inhibitors of apoptosis in testicular germ cells: Synthesis and biological evaluation of some novel IBTs bearing sulfonamide moiety. 2013 Jan; 59, (0): 203-208.   
Rec #: 1360  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Pifithrin-+\_, a known p53 inactivator, inhibits p53-dependant mitochondrial cell death induced by toxins or +¦-radiation. It has been found that aromatic IBT analogues of PFT-+\_ are more cytoprotective and nonpeptide-based, isatin sulfonamides selectively inhibit caspases 3 and 7, responsible for mitochondrial mediated apoptosis. Therefore, we envisioned the synthesis of novel IBTs 4 and 5 bearing sulfonamide moiety and observed the mitigating effects of these IBTs in rescue of malathion induced apoptosis in testicular germ cells of goat. Two IBTs (4b; R-á=-áCH3, 5b; R1-á=-áCl) showed very high survival rate of cells whereas IBT 4f (R-á=-áNO2) showed some exceptional behaviour by increasing the apoptosis. These IBTs nullify the cytotoxic effect of malathion on mitochondria, following p53-independent pathway. Imidazobenzothiazoles (IBTs)/ Sulfonamide/ Inhibitors of apoptosis/ Testicular germ cells http://www.sciencedirect.com/science/article/pii/S0223523412006848

133. Chauhan, N. ; Narang, J., and Pundir, C. S. Immobilization of rat brain acetylcholinesterase on porous gold-nanoparticle-CaCO(3) hybrid material modified Au electrode for detection of organophosphorous insecticides. 2011; 49, 923-929.   
Rec #: 12490  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: An **acetylcholinesterase (AChE) purified from rat brain** was immobilized onto gold nanoparticles (AuNPs) assembled on the surface of porous calcium carbonate (CaCO(3)) microsphere. The resulting AChE-AuNPs-CaCO(3) bioconjugate was mounted on the surface of Au electrode with the help of silica sol-gel matrix to prepare the working electrode. This electrode was connected to Ag/AgCl (3 M/saturated KCl) as standard and Pt wire as an auxiliary electrode through a potentiostat to construct an organophosphorus (OP) biosensor. The biosensor was based on inhibition of AChE by OP compounds/insecticides. The biosensor showed optimum response at pH 7.0, 30 degrees C, when polarized at +0.2 V. **Two OP compounds, malathion and chlorpyrifos could be detected in the range of 0.1-100 nM and 0.1-70 nM, respectively at 2.0-3.0% inhibition level of AChE. T**he sensor was reactivated by immersing it in 0.1 mM 2-pyridine aldoxime for 10 min. The detection limit of the sensor was 0.1 nM for both malathion and chlorpyrifos. The biosensor exhibited good reusability (50 times without considerable loss) and storage stability (50% within 60 days, when stored at 4 degrees C). (C) 2011 Elsevier B.V. All rights reserved.  
Number of Volumes: 5  
ISI Document Delivery No.: 846XT <Go to ISI>://CCC:000296937200009

134. Chauhan, Nidhi; Narang, Jagriti; Pundir, C S, and Chauhan, Nidhi. Immobilization of Rat Brain Acetylcholinesterase on Zns and Poly(Indole-5-Carboxylic Acid) Modified Au Electrode for Detection of Organophosphorus Insecticides. 2011 Nov 15; 29, (1): 82-88.   
Rec #: 3030  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: A novel, highly sensitive amperometric biosensor for detection of organophosphorus (OP) compounds has been constructed, based on rat brain acetylcholinesterase (AChE) immobilized onto nanocomposite of ZnS-nanoparticles (ZnSNPs) and poly(indole-5-carboxylic acid) electrodeposited on Au electrode. In the presence of acetylthiocholine chloride (ATCl) as a substrate, ZnSNPs promoted electron transfer reactions at a lower potential and catalyzed electrochemical oxidation of enzymatically formed thiocholine, thus increasing detection sensitivity. Under optimum conditions (phosphate buffer, pH 7.5 and 30 degree C), the inhibition of AChE by malathion and chlorpyrifos was proportional to their concentrations in the range, 0.1-50nM and 1.5-40nM, respectively. The biosensor determined malathion and chlorpyrifos in spiked tap water samples with a acceptable accuracy (95-100%). The enzyme electrode had long-storage stability (50% retention of initial activity within 2months, when stored at 4 degree C).  
Keywords: Acetylcholinesterase  
Keywords: Brain  
Keywords: Enzymes  
Keywords: Chloride  
Keywords: Electron transfer  
Keywords: CSA Neurosciences Abstracts; Biotechnology and Bioengineering Abstracts  
Keywords: Malathion  
Keywords: N3 11145:Methodology  
Keywords: Biosensors  
Keywords: Chlorpyrifos  
Keywords: Insecticides  
Keywords: Phosphate  
Keywords: Electrodes  
Keywords: Oxidation  
Keywords: W 30955:Biosensors  
Keywords: pH effects  
Keywords: Immobilization English. Date revised - 2011-11-01. Last updated - 2012-08-10. DOI - 53941068-f065-4a3c-a199csamfg201; 15763427; 0956-5663. SubjectsTermNotLitGenreText - Acetylcholinesterase; Brain; Enzymes; Chloride; Electron transfer; Malathion; Biosensors; Chlorpyrifos; Insecticides; Phosphate; Oxidation; Electrodes; pH effects; Immobilization

135. Chauhan, Nidhi; Pundir, Chandra Shekhar, and Chauhan, Nidhi. An Amperometric Biosensor Based on Acetylcholinesterase Immobilized Onto Iron Oxide Nanoparticles/Multi-Walled Carbon Nanotubes Modified Gold Electrode for Measurement of Organophosphorus Insecticides. 2011 Sep 2; 701, (1): 66-74.   
Rec #: 3170  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: An acetylcholinesterase (AChE) purified from maize seedlings was immobilized covalently onto iron oxide nanoparticles (Fe sub(3O) sub(4)NP) and carboxylated multi walled carbon nanotubes (c-MWCNT) modified Au electrode. An organophosphorus (OP) biosensor was fabricated using this AChE/Fe sub(3O) sub(4)/c-MWCNT/Au electrode as a working electrode, Ag/AgCl as standard and Pt wire as an auxiliary electrode connected through a potentiostat. The biosensor was based on inhibition of AChE by OP compounds/insecticides. The properties of nanoparticles modified electrodes were studied by scanning electron microscopy (SEM), Fourier transform infrared (FTIR), cyclic voltammograms (CVs) and electrochemical impedance spectroscopy (EIS). The synergistic action of Fe sub(3O) sub(4)NP and c-MWCNT showed excellent electrocatalytic activity at low potential (+0.4 V). The optimum working conditions for the sensor were pH 7.5, 35 degree C, 600 mu M substrate concentration and 10 min for inhibition by pesticide. Under optimum conditions, the inhibition rates of OP pesticides were proportional to their concentrations in the range of 0.1-40 nM, 0.1-50 nM, 1-50 nM and 10-100 nM for malathion, chlorpyrifos, monocrotophos and endosulfan respectively. The detection limits were 0.1 nM for malathion and chlorpyrifos, 1 nM for monocrotophos and 10 nM for endosulfan. The biosensor exhibited good sensitivity (0.475 mA mu M super(-1), reusability (more than 50 times) and stability (2 months). The sensor was suitable for trace detection of OP pesticide residues in milk and water.)  
Keywords: Sensors  
Keywords: iron oxides  
Keywords: Pesticide residues  
Keywords: Acetylcholinesterase  
Keywords: ENA 09:Land Use & Planning  
Keywords: monocrotophos  
Keywords: Spectroscopy  
Keywords: Malathion  
Keywords: Biosensors  
Keywords: Insecticides  
Keywords: Carbon  
Keywords: Zea mays  
Keywords: Biotechnology and Bioengineering Abstracts; Environment Abstracts  
Keywords: W 30955:Biosensors  
Keywords: Gold  
Keywords: pH effects  
Keywords: Milk  
Keywords: Endosulfan  
Keywords: Chlorpyrifos  
Keywords: Electrodes  
Keywords: Pesticides  
Keywords: nanotubes  
Keywords: Seedlings  
Keywords: Iron  
Keywords: nanoparticles  
Keywords: nanotechnology English. Date revised - 2012-01-01. Last updated - 2012-09-10. DOI - 46479967-2ac4-461a-852bcsaobj201; 15372226; 0003-2670. SubjectsTermNotLitGenreText - Milk; iron oxides; Pesticide residues; Acetylcholinesterase; monocrotophos; Spectroscopy; Malathion; Endosulfan; Biosensors; Chlorpyrifos; Carbon; Insecticides; Electrodes; Pesticides; Gold; nanotubes; Seedlings; pH effects; nanoparticles; Sensors; Iron; nanotechnology; Zea mays

136. Chauzat, M. P. and Faucon, J. P. Pesticide Residues in Beeswax Samples Collected from Honey Bee Colonies (Apis mellifera L.) in France. 2007; 63, 1100-1106.   
Rec #: 1670  
Keywords: SURVEY  
Call Number: NO SURVEY (AZ,CMPH,CPY,CYF,CYP,DM,ES,FNT,MDT,MLN,MP,MVP,TAUF,VCZ)  
Notes: Chemical of Concern: AZ,CMPH,CPY,CYF,CYP,DM,EPRN,ES,FNT,FNTH,HCCH,MDT,MLN,MP,MVP,PPCP,PRN,TAUF,VCZ

137. Cheesman, Matthew J.; Traylor, Matthew J.; Hilton, Margaret E.; Richards, Katelyn E.; Taylor, Matthew C.; Daborn, Phillip J.; Russell, Robyn J.; Gillam, Elizabeth M. J., and Oakeshott, John G. Soluble and membrane-bound Drosophila melanogaster CYP6G1 expressed in Escherichia coli: Purification, activity, and binding properties toward multiple pesticides. 2013 May; 43, (5): 455-465.   
Rec #: 1740  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Cytochrome P450 CYP6G1 has been implicated in the resistance of Drosophila melanogaster to numerous pesticides. While in-ávivo and in-ávitro studies have provided insight to the diverse functions of this enzyme, direct studies on the isolated CYP6G1 enzyme have not been possible due to the need for a source of recombinant enzyme. In the current study, the Cyp6g1 gene was isolated from D.-ámelanogaster and re-engineered for heterologous expression in Escherichia coli. Approximately 460-ánmol-áLęĆ1 of P450 holoenzyme were obtained in 500-ámL cultures. The recombinant enzyme was located predominantly within the bacterial cytosol. A two-step purification protocol using Ni-chelate affinity chromatography followed by removal of detergent on a hydroxyapatite column produced essentially homogenous enzyme from both soluble and membrane fractions. Recombinant CYP6G1 exhibited p-nitroanisole O-dealkylation activity but was not active against eleven other typical P450 marker substrates. Substrate-induced binding spectra and IC50 values for inhibition of p-nitroanisole O-dealkylation were obtained for a wide selection of pesticides, namely DDT, imidacloprid, chlorfenvinphos, malathion, endosulfan, dieldrin, dicyclanil, lufenuron and carbaryl, supporting previous in-ávivo and in-ávitro studies on Drosophila that have suggested that the enzyme is involved in multi-pesticide resistance in insects. Cytochrome P450/ CYP6G1/ Pesticide/ Multi-pesticide resistance/ Insecticide resistance http://www.sciencedirect.com/science/article/pii/S0965174813000271

138. Chen, D.; Chen, C., and Du, D. Detection of Organophosphate Pesticide Using Polyaniline and Carbon Nanotubes Composite Based on Acetylcholinesterase Inhibition.   
Rec #: 9370  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: Acetylcholinesterase (AChE) activity may be useful biomarker for detecting of organophosphate pesticides (OP). Thus a sensitive biosensor for quantitative determination of OP based on AChE biomonitoring was developed. Multi-walled carbon nanotube (MWCNT)/polyaniline (PANI) composite film was prepared by electrochemical polymerization. The immobilized AChE catalyzed the hydrolysis of acetylthiocholine chloride to produce thiocholine, which engendered an irreversible oxidation peak. The enzyme activity was monitored by measuring the oxidation current of thiocholine and further detection of OP. The developed sensor provided a new promising tool for pesticide analysis and assay of enzyme activity.  
MESH HEADINGS: Acetylcholinesterase  
MESH HEADINGS: \*Aniline Compounds/chemistry  
MESH HEADINGS: Biosensing Techniques/methods  
MESH HEADINGS: Cholinesterase Inhibitors/analysis  
MESH HEADINGS: Electrochemistry  
MESH HEADINGS: Enzymes, Immobilized  
MESH HEADINGS: Malathion/analysis  
MESH HEADINGS: \*Nanocomposites/chemistry  
MESH HEADINGS: Nanotechnology  
MESH HEADINGS: \*Nanotubes, Carbon  
MESH HEADINGS: Organophosphorus Compounds/\*analysis  
MESH HEADINGS: Pesticides/\*analysis eng

139. Chen, D.; Song, Z., and Lv, H. Assay of Picogram Level Isocarbophos Residue on Tangerines and Oranges With Luminol-Albumin Chemiluminescence System.   
Rec #: 8370  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: A sensitive flow injection-chemiluminescence (FI-CL) method for the determination of isocarbophos (ICP) residue on tangerines and oranges was proposed. It was found that the CL intensity from luminol-albumin CL reaction could be obviously quenched in the presence of ICP and the decrease in CL intensity was proportional to the logarithm of ICP concentrations ranging from 1.0 to 1000 pmol L(-1), giving the limit of detection of 0.3 pmol L(-1) (3&sigma;). The proposed procedure was successfully applied to the determination of ICP residue on tangerines and oranges with recoveries varying from 92.0 to 111.0% and RSDs less than 5.0%. The possible CL mechanism of luminol-albumin-ICP reaction was discussed, and ICP to albumin's binding constant (K(D)=1.00 &times; 10(6) L mol(-1)) and the number of binding sites (n=1.00) were given by the homemade FI-CL model.  
MESH HEADINGS: Albumins/chemistry  
MESH HEADINGS: Citrus/\*chemistry  
MESH HEADINGS: Citrus sinensis/\*chemistry  
MESH HEADINGS: Insecticides/\*analysis  
MESH HEADINGS: Limit of Detection  
MESH HEADINGS: Luminescent Measurements/instrumentation/\*methods  
MESH HEADINGS: Luminol/chemistry  
MESH HEADINGS: Malathion/\*analogs &amp  
MESH HEADINGS: derivatives/analysis  
MESH HEADINGS: Pesticide Residues/\*analysis eng

140. Chen, Jing-Min and Chen, Jing-Min. Determination of Malathion in Drinking Water by Rapid Solvent Extraction-Gas Chromatography. 2011 Sep; 28, (9): 814-815.   
Rec #: 3200  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Objective: To establish a method for the determination of malathion in drinking water by rapid solvent extraction-gas chromatography. Methods: The sample volume was 25 ml, static extraction for 2 times, extraction time was 6 min, the solvent was methylene chloride-petroleum ether-acetone (volume ratio of 3:1:1), the mass of anhydrous sodium sulfate was 20 g. HP-5 capillary column(30 m x 0.32 mm, 0.25 mu m)was used, split ratio was 1:5, gas chromatography was used for the determination. Results: A good linear relationship was seen in the concentration of 1.0-500.0 mu g/L, the regression equation was gamma =0.1146x + 0.0153, r value was 0.9996, the lowest detection limit was 0.05 mu g/L, the quantitative referrals was 1.04 mu g/L. the rate of recovery ranged from 98.3% to 100.9%. RSDs was 0.36% to 4.23%. Conclusion: This method is simple, accurate, precise and applicable to the determination of malathion in drinking water.  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: Sulfates  
Keywords: Mathematical models  
Keywords: Chromatographic techniques  
Keywords: Chromatography  
Keywords: SW 0810:General  
Keywords: Solvents  
Keywords: Q5 01502:Methods and instruments  
Keywords: Water Resources Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; Aqualine Abstracts  
Keywords: Gas Chromatography  
Keywords: Malathion  
Keywords: Sodium  
Keywords: Drinking Water  
Keywords: Analytical Methods  
Keywords: Detection Limits  
Keywords: Gas chromatography  
Keywords: Drinking water  
Keywords: Sodium Sulfate Chinese. Date revised - 2012-03-01. Last updated - 2013-05-06. DOI - f37e5fca-b018-4af8-a481csaobj201; 16176367; 1001-5914. SubjectsTermNotLitGenreText - Mathematical models; Drinking Water; Chromatographic techniques; Solvents; Sulfates; Sodium; Gas chromatography; Chromatography; Drinking water; Malathion; Detection Limits; Analytical Methods; Gas Chromatography; Sodium Sulfate

141. Chen, L; Chen, Z; Liu, Y; Lopez, T; Sankaran, G; Vega, H; Krieger, R, and Chen, L. Insecticide Residues and Their Selected Biomarkers in Produce: Field Studies Using Malathion and Fenpropathrin in Strawberries. 2011 Mar 6.  
Rec #: 3560  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Bioindicators  
Keywords: Insecticides  
Keywords: Insecticide residues  
Keywords: Fragaria  
Keywords: Biomarkers  
Keywords: biomarkers  
Keywords: Malathion English. Date revised - 2013-02-26. Last updated - 2013-02-28. DOI - CPI-6047115; 6047115

142. Chen, L.; Zhao, T. F.; Pan, C. P.; Ross, J. H., and Krieger, R. I. Preformed Biomarkers Including Dialkylphosphates (DAPs) in Produce May Confound Biomonitoring in Pesticide Exposure and Risk Assessment. 2012; 60, 9342-9351.   
Rec #: 12520  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Low levels of pesticides and their metabolites/degradates occur in produce when pesticides are used in conventional or organic crop protection. Human dietary and nonoccupational urine biomonitoring studies may be confounded by preformed pesticide biomarkers in the diet. The extent of formation of putative urine biomarkers, including malathion specific (MMA, MDA; malathion mono- and diacids), organophosphorus generic (DMP, DMTP, DMDTP; dimethyl-, dimethylthio-, and dimethydithiophosphate), pyrethroid generic (3-PBA; 3-phenoxybenzoic acid), and captan-specific metabolites (THPI; tetrahydrophthalimide), was measured in produce samples containing the parent pesticide. Every produce sample of 19 types of fruits and vegetables contained biomarkers of potential human exposure. A total of 134 of 157 (85%) samples contained more molar equivalent biomarkers than parent pesticide. Malathion and fenpropathrin were sprayed (1 lb/A), and the time-dependent formation of pesticide biomarkers in strawberries was investigated under field conditions typical of commercial production in California. Malathion and fenpropathrin residues were always below established residue tolerances. Malathion, MMA, and MDA dissipated, while DMP, DMTP, and DMDTP increased, during a 20 day study period following the preharvest interval. The mole ratios of biomarkers/(malathion + malaoxon) were always greater than 1 and increased from day 4 to day 23 postapplication. Fenpropathrin and 3-PBA also dissipated in strawberries during each monitoring period. The mole ratios of 3-PBA/fenpropathrin were always less than 1 and decreased from day 4 to day 14. The absorption of pesticide biomarkers in produce and excretion in urine would falsely indicate consumer pesticide exposure if used to reconstruct dose for risk characterization.  
Number of Volumes: 36  
ISI Document Delivery No.: 002YL <Go to ISI>://CCC:000308574900070

143. Chen, Lina; Yin, Lihua; Song, Fengrui; Liu, Zhiqiang; Zheng, Zhong; Xing, Junpeng, and Liu, Shuying. Determination of pesticide residues in ginseng by dispersive liquidÇôliquid microextraction and ultra high performance liquid chromatographyÇôtandem mass spectrometry. 2013 Feb 15-; 917Çô918, (0): 71-77.   
Rec #: 1300  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: A procedure involving acetonitrile-based extraction combined with dispersive liquidÇôliquid microextraction (DLLME) and detection by ultra high performance liquid chromatographyÇôtandem mass spectrometry (UHPLCÇôMS/MS) was used for determination of 39 pesticides in ginseng. The extraction of pesticide residues in ginseng was performed with acetonitrile, applying QuEChERS methodology, and the extract was further disposed by DLLME method before analyzed by UHPLCÇôMS/MS. The average recoveries ranged from 70 to 120% for 82% of the analytes with RSD lower than 15%. The calibration curves obtained with blank matrices were linear with a correlation coefficient of over 0.99. The limits of detection were between 0.01 and 1.0 ++g/kg. Matrix effects were studied by comparing solvent calibration curves and matrix-matched calibration curves. The results indicate the feasibility of this method for the determination of 39 pesticides in ginseng. Pesticides/ Ginseng/ QuEChERS/ DLLME/ UHPLCÇôMS/MS http://www.sciencedirect.com/science/article/pii/S1570023213000184

144. Chen, P. R.; Tucker, W. P., and Dauterman, W. C. Structure of Biologically Produced Malathion Monoacid. 1969; 17, 86-90.   
Rec #: 1580  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN

145. Chen, Z-B; Liu, L-H; Ye, Q, and Chen, Z-B. Determination of Organophosphorus and Carbamate Pesticide Residues in Water by Gas Chromatography-Mass Spectrometry. 2009 Feb; 26, (2 ): 156-157.   
Rec #: 5160  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Objective To establish a method for determination of organophosphorus and carbamate pesticide residues in water by GC-MS. Methods Twelve kinds of organophosphorus and carbamate pesticide residues were determined with GC-MS with methylenechloride and petroleum ether (4:1) as extraction solvent. Results The linear ranges of 12 kinds of pesticides were perfect in the range of 0.01-1.0kg/ml, r>0.997, the average rates of recovery were 76.0%-111.0%, and RSD were 5.20%-9.20%, the lowest limit detection (S/N=3) of dichlorvos, chinomethionate, parathion, bromophos, carbophenothion, fenthion, isoprocarb, pirimicarb, aminocarb, thiobencarb, pendimethalin, malathion was 0.009, 0.003, 0.008, 0.001, 0.003, 0.003, 0.0025, 0.009, 0.005, 0.010, 0.010, 0.006 kg/ml respectively. Conclusion This method is simple, rapid, sensitive and can be applied to the simultaneous determination of 12 kinds of organophosphorus and carbamate pesticides in the water.  
Keywords: Pesticide residues  
Keywords: Water analysis  
Keywords: Mass spectroscopy  
Keywords: Malathion  
Keywords: petroleum ether  
Keywords: Pendimethalin  
Keywords: Agricultural Chemicals  
Keywords: petroleum residues  
Keywords: Gas chromatography  
Keywords: Thiobencarb  
Keywords: Ethers  
Keywords: X 24330:Agrochemicals  
Keywords: pendimethalin  
Keywords: Dichlorvos  
Keywords: SW 3050:Ultimate disposal of wastes  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Solvents  
Keywords: dichlorvos  
Keywords: Carbamate Pesticides  
Keywords: Aqualine Abstracts; Water Resources Abstracts; Pollution Abstracts; Toxicology Abstracts  
Keywords: AQ 00003:Monitoring and Analysis of Water and Wastes  
Keywords: Fenthion  
Keywords: Pesticides (carbamates)  
Keywords: Spectrometry  
Keywords: Pesticides  
Keywords: Parathion Chinese. Date revised - 2009-05-01. Last updated - 2013-04-19. DOI - MD-0009570294; 9263940; 1001-5914. SubjectsTermNotLitGenreText - Pesticide residues; Solvents; Pesticides (carbamates); Fenthion; Mass spectroscopy; Malathion; petroleum ether; Pendimethalin; Thiobencarb; Gas chromatography; Pesticides; Dichlorvos; Parathion; petroleum residues; dichlorvos; Ethers; Water analysis; pendimethalin; Spectrometry; Agricultural Chemicals; Carbamate Pesticides

146. Cheng, Feng-Ning; Li, Zhao-Yang; Li, Qiao-Ling; Xing, Jian; Zhang, Yan-Chuan, and Cheng, Feng-Ning. Photolysis of Typical Chiral Pesticides. 2011 May; 34, (5): 121-123, 139.   
Rec #: 6400  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: 6 chiral pesticides were investigated in the study related to their photolysis characteristics by using mercury lamp as light source. Profenophos, malathion, phenthoate, triadimefon and fenpropathrin each has one chiral center and thus exists as two enantiomers. The photolysis of individual enantiomers from one chiral pesticide showed similar dissipation rates of the two enantiomers. No enantiomerization was observed for 5 chiral pesticides. 3 organophosphorus insecticides were photolyzed very rapidly, whereas fenpropathrin had the slowest photolysis rate with a half-life time of 280 h. Cypermethrin has 3 chiral centers and consists of 8 enantiomers which constitute 4 diastereoisomers that could be separated on a chiral silica-gel column. Further photolysis was performed for a single enantiomer from diastereoisomer IV beta -trans-2. Results indicated that certain amounts of diastereoisomers I, II and III were produced, suggesting isomerization took place along with photolysis process. By summing the concentrations of 4 diastereoisomers the total half-life was calculated to be 66.7 h.  
Keywords: Photolysis  
Keywords: cypermethrin  
Keywords: Organophosphorus compounds  
Keywords: P 9999:GENERAL POLLUTION  
Keywords: ENA 09:Land Use & Planning  
Keywords: light sources  
Keywords: Pesticides  
Keywords: Mercury  
Keywords: Pollution Abstracts; Environment Abstracts  
Keywords: Malathion Chinese. Date revised - 2011-09-01. Last updated - 2012-04-26. DOI - 296015da-1b8c-445a-a6aecsaobj201; 15434384; 1003-6504. SubjectsTermNotLitGenreText - Photolysis; cypermethrin; Organophosphorus compounds; light sources; Pesticides; Mercury; Malathion

147. Cheng, Hao; Li, Jianping; Gao, Xiaoguang; Jia, Jian; Zhang, Dexin; Zhao, Dongjie, and Cheng, Hao. Malathion Detection Method Using Microhotplate-Based Preconcentrator and Ion Mobility Spectrometer. 2012 Jan; 92, (3): 279-288.   
Rec #: 2940  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A simple and rapid method using a microhotplate-based preconcentrator and an ion mobility spectrometer (IMS) is proposed for the detection of malathion in water. The preconcentrator is prepared by micro-electro-mechanical system (MEMS) process. Coated with Polydimethylsiloxane (PDMS), it has the advantages of solvent-less, low energy cost, self-heating and ease to combine with IMS. The operating conditions of the preconcentrator-IMS system, such as extraction time, extraction temperature, agitation speed and desorption temperature, were optimised. Using the preconcentrator, the sampling procedure can be simplified and the detection limit of the system can be decreased. A linear relationship between the IMS response and the concentration of the analyte solution was verified. The malathion detection limit based on 3 times the baseline noise is 0.43 mu g L-1 and the total analysis time is less than 30 minutes.  
Keywords: Desorption  
Keywords: Mobility  
Keywords: Temperature  
Keywords: Noise levels  
Keywords: Environment Abstracts  
Keywords: ENA 08:International  
Keywords: Malathion English. Date revised - 2012-04-01. Last updated - 2012-05-18. DOI - f69485c1-6a3a-451b-93acmfgefd107; 16536539; 0306-7319; 1029-0397. SubjectsTermNotLitGenreText - Desorption; Mobility; Noise levels; Temperature; Malathion

148. Chiba, Shoetsu; Ikawa, Toru; Takeshita, Hiroshi; Ichiba, Kazue; Sagi, Morihisa; Mukai, Toshiji, and Anzai, Naohiro. Interactions of Human Organic Anion Transporter 1 (Hoat1) With Substances Associated With Forensic Toxicology. 2011 Jul; 13, (4): 180-185.   
Rec #: 6280  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Renal excretion is an important elimination pathway for substances associated with forensic toxicology, such as medicines, agricultural chemicals, and industrial chemicals. This study aimed to elucidate the renal elimination pathway of substances using culture cells stably expressing the human organic anion transporter 1 (hOAT1) gene. Substances tested were diazepam, triazolam, haloperidol, amitriptyline, mianserin, bromovalerylurea, phenobarbital, acetaminophen, acetylsalicylic acid, lidocaine, aconitine, atropine, caffeine, nicotine, malathion, dichlorvos, fenitrothion, chlorpyrifosmethyl, paraquat, diquat, potassium cyanide, sodium arsenite, sodium azide, o-cresol, and probenecid (control, a representative inhibitor of hOAT1). Results demonstrated that diazepam, triazolam, amitriptyline, mianserin, malathion, fenitrothion, chlorpyrifosmethyl, and probenecid significantly inhibited representative substrates of hOAT1 and para-aminohippuric acid uptake by hOAT1. IC(50) values of the aforementioned substances were 133.3, 185.2, 354.1, 312.6, 114.2, 26.6, 191.5, and 7.9Î¼M, respectively. Ki values were 83.5, 86.0, 573.9, 99.0, 134.0, 51.2, 324.6, and 9.1Î¼M, respectively. In conclusion, the current results suggest that fenitrothion and chlorpyrifosmethyl are transported with pharmacokinetics indicative of hOAT1 involvement in the human kidney. 2011 Elsevier Ireland Ltd. All rights reserved.  
Keywords: Animals  
Keywords: Kidney -- metabolism  
Keywords: Humans  
Keywords: Index Medicus  
Keywords: Mice  
Keywords: Central Nervous System Agents -- pharmacokinetics  
Keywords: Organic Anion Transporters  
Keywords: SLC22A13 protein, human  
Keywords: 0  
Keywords: Insecticides  
Keywords: Transfection  
Keywords: Cells, Cultured  
Keywords: Insecticides -- pharmacokinetics  
Keywords: Forensic Toxicology  
Keywords: Organic Anion Transporters -- metabolism  
Keywords: Central Nervous System Agents eng. Date completed - 2011-10-24. Date created - 2011-05-30. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-21561794; 21561794; 1873-4162

149. Choi, J Y; Yang, D B; Lee, S-G; Bang, J H; Hong, G H; Shin, Kh, and Choi, J Y. Organophosphorous Pesticide Distribution in Seawater From Asan Bay, Korea in 2008. 2010 Sep; 32, (3): 203-212.   
Rec #: 6860  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Distribution of organophosphorous pesticides (OPs) was studied from February to September 2008 in the seawater of Asan Bay, Korea. Among the 29 types of OPs detected during the study period, IBP(S-benzyl O,O-diisopropyl phosphorothioate), ranging from <1 ng/l to 377 ng/l, was the most abundant. Other commonly observed OPs concentrations in the study area included diazinon (Diethyl 2-isopropyl-4-methyl-6-pyrimidinyl phosphorothionate; <16307 ng/l), azinphos ethyl (3,4-Dihydro-4-oxo-3-benzotriazinyl-methyl O,O-diethyl phosphorodithioate; <161997 ng/l), malathion (1,2-Di(ethoxycarbonyl)ethyl O,O-dimethyl phosphordithioates; <163013 ng/l), demeton-O (Diethyl 2-(ethylthio)ethyl phosphorothionate; <162403 ng/l), and DDVP (2,2-dichlorovinyl dimethyl phosphate; <16283 ng/l). Seasonal distribution of OPs in seawater is dependent on the OP application period. In August, OPs concentrations were generally decreased with the increased salinity of seawater, implying progressive dilution of pesticides in the estuarine system. OPs were deposited into Asan Bay from Asan and Sabkyo Lakes as well as surrounding tributaries. Ten OPs, including diazinon, were detected in the suspended particles of Asan Bay.  
Keywords: Oceanic Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality  
Keywords: Q5 01503:Characteristics, behavior and fate  
Keywords: Marine  
Keywords: Estuaries  
Keywords: Brackish  
Keywords: Seasonal distribution  
Keywords: Suspended particulate matter  
Keywords: INW, Korea, Rep., Asan Bay  
Keywords: Sea water  
Keywords: Korea, Rep., Asan  
Keywords: Pesticides  
Keywords: INW, Korea, Rep.  
Keywords: Brackishwater environment  
Keywords: Tributaries  
Keywords: O 4060:Pollution - Environment Korean. Date revised - 2010-11-01. Last updated - 2013-04-19. DOI - MD-0014985668; 13970439; CS1314501; 1598-141X. SubjectsTermNotLitGenreText - Sea water; Estuaries; Pesticides; Brackishwater environment; Seasonal distribution; Suspended particulate matter; Tributaries; Korea, Rep., Asan; INW, Korea, Rep.; INW, Korea, Rep., Asan Bay; Marine; Brackish

150. Chowdhury, M. A. Z.; Banik, S.; Uddin, B.; Moniruzzaman, M.; Karim, N., and Gan, S. H. Organophosphorus and Carbamate Pesticide Residues Detected in Water Samples Collected from Paddy and Vegetable Fields of the Savar and Dhamrai Upazilas in Bangladesh. 2012; 9, 3318-3329.   
Rec #: 12620  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Several types of organophosphorous and carbamate pesticides have been used extensively by the farmers in Bangladesh during the last few decades. Twenty seven water samples collected from both paddy and vegetable fields in the Savar and Dhamrai Upazilas in Bangladesh were analyzed to determine the occurrence and distribution of organophosphorus (chlorpyrifos, malathion and diazinon) and carbamate (carbaryl and carbofuran) pesticide residues. A high performance liquid chromatograph instrument equipped with a photodiode array detector was used to determine the concentrations of these pesticide residues. Diazinon and carbofuran were detected in water samples collected from Savar Upazila at 0.9 mu g/L and 198.7 mu g/L, respectively. Malathion was also detected in a single water sample at 105.2 mu g/L from Dhamrai Upazila. Carbaryl was the most common pesticide detected in Dhamrai Upazila at 14.1 and 18.1 mu g/L, while another water sample from Dhamrai Upazila was contaminated with carbofuran at 105.2 mu g/L. Chlorpyrifos was not detected in any sample. Overall, the pesticide residues detected were well above the maximum acceptable levels of total and individual pesticide contamination, at 0.5 and 0.1 mu g/L, respectively, in water samples recommended by the European Economic Community (Directive 98/83/EC). The presence of these pesticide residues may be attributed by their intense use by the farmers living in these areas. Proper handling of these pesticides should be ensured to avoid direct or indirect exposure to these pesticides.  
Number of Volumes: 9  
ISI Document Delivery No.: 012XP <Go to ISI>://CCC:000309270300022

151. Ciliberti, A.; Berny, P.; Vey, D., and de Buffrenil, V. Assessing environmental contamination around obsolete pesticide stockpiles in West Africa: Using the Nile monitor (Varanus niloticus) as a sentinel species. 2012; 31, 387-394.   
Rec #: 12640  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Environmental contamination caused by obsolete pesticide stocks was assessed using the Nile monitor (Varanus niloticus) as a sentinel species. Organochlorines and organophosphates were quantified by gas chromatography in abdominal fat and the liver, respectively. Results were compared to those obtained from three other sites, characterized by different histories of contamination. None of the previously stocked pesticides were recovered. Low to moderate levels of 4,4'-dichlorodiphenyldichloroethylene (4,4'-DDE) were quantified in monitors from all sites. Malathion and 4,4'-dichlorodiphenyldichloroethane (4,4'-DDD) also were detected sporadically. Interindividual variability was substantial. Correlations between pesticide loads and individual characteristics were considered. The nondetection of previously stocked pesticides in the monitors' tissues, their contamination by other pesticides, and the value of V. niloticus as a monitoring tool for environmental contamination are discussed. The results indicate a situation of low concern and draw attention to the importance of local conditions in determining environmental dangers associated with potential pollution sources. Environ. Toxicol. Chem. 2012;31:387-394. (C) 2011 SETAC  
Number of Volumes: 2  
ISI Document Delivery No.: 875NB <Go to ISI>://CCC:000299036300021

152. Clayson, P. J.; Latham, M.; Bonds, J. A. S.; Healy, S. P.; Crans, S. C., and Farajollahi, A. A DROPLET COLLECTION DEVICE AND SUPPORT SYSTEM FOR ULTRA-LOW-VOLUME ADULTICIDE TRIALS. 2010; 26, 229-232.   
Rec #: 12650  
Keywords: METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A supporting stand to suspend rotating impactors and mosquito cages is a requirement for field tests during pesticide efficacy trials. We present schematics for a collection device and associated support system for sampling droplets of ultra-low-volume (ULV) sprays during mosquito **adulticide** applications. This system offers the advantages of cost efficiency, increased ease of deployment, off-season storage, visibility, stability, and ULV collection efficacy. Use of this system ensures that droplet collection and meteorological equipment is at appropriate and consistent heights between trials. The 2 arms of the support allow for placement of multiple cages, light-emitting or reflecting devices, and wind-indicating ribbons to be attached to the station. The support described makes possible deployment of stations over a wider variety of terrains, increasing the extent of field trials. Presentation of the simple design and fabrication of the rotating collection device (impactor), T-station, and its support is provided.  
Number of Volumes: 2  
ISI Document Delivery No.: 618AA <Go to ISI>://CCC:000279322100016

153. Cole, T. B.; Jansen, K.; Park, S.; Li, W. F.; Furlong, C. E., and Costa, L. G. The Toxicity of Mixtures of Specific Organophosphate Compounds is Modulated by Paraoxonase 1 Status. Department of Medicine and Genome Sciences, University of Washington, Seattle, WA, USA,//: 2009; 660, 47-60.   
Rec #: 1800  
Keywords: REVIEW  
Call Number: NO REVIEW (CPYO,DZ,MLO)  
Notes: Chemical of Concern: CPYO,DZ,MLO

154. Cooper, D. and Terrell, Y. Acute Oral LD50 of Fyfanon 77106 KL (Malathion) in Sprague-Dawley Rats. 1979.  
Rec #: 490  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

155. ---. Acute Oral LD50 of Fyfanon 77106 ST L 1 AAR (Malathion) in Sprague-Dawley Rats. 1979.  
Rec #: 480  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

156. Cope, O. B. Malathion and Cutthroat Trout at Jackson, Wyoming. 1965: 59-60 (Publ As 2871).   
Rec #: 90  
Keywords: PUBL AS  
Call Number: NO PUBL AS (MLN)  
Notes: Chemical of Concern: MLN

157. Coppage, D. L. Enzyme Systems of Estuarine Organisms. 1970: 31-33.   
Rec #: 1140  
Keywords: NO CONC  
Call Number: NO CONC (AZ,DZ,MLN,PRT)  
Notes: Chemical of Concern: AZ,DZ,EPRN,MLN,PRN,PRT

158. Corsini, E. ; Sokooti, M.; Galli, C. L.; Moretto, A., and Colosio, C. Pesticide induced immunotoxicity in humans: A comprehensive review of the existing evidence: Emerging health issues from chronic pesticide exposure: Innovative methodologies and effects on molecular cell and tissue level. 2013 May 10-; 307, (0): 123-135.   
Rec #: 920  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: The immune system can be the target of many chemicals, with potentially severe adverse effects on the host's health. In Western countries pesticides, together with new and modified patterns of exposure to chemicals, have been implicated in the increasing prevalence of diseases associated with alterations of the immune response, such as hypersensitivity reactions, certain autoimmune diseases and cancers. Xenobiotics may initiate, facilitate or exacerbate pathological immune processes, resulting in immunotoxicity by induction of mutations in genes coding for immunoregulatory factors, modifying immune tolerance and activation pathways. Immune system/ Immunotoxicity/ Pesticides http://www.sciencedirect.com/science/article/pii/S0300483X12003599

159. Coscolla, Clara; Castillo, Mercedes; Pastor, Agustin; Yusa, Vicent, and Coscolla, Clara. Determination of 40 Currently Used Pesticides in Airborne Particulate Matter (Pm 10) by Microwave-Assisted Extraction and Gas Chromatography Coupled to Triple Quadrupole Mass Spectrometry. 2011 May 5; 693, (1-2): 72-81.   
Rec #: 6370  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A confirmatory and sensitive procedure has been developed for the determination of 40 currently used pesticides (CUPs) in airborne particulate matter (PM 10) at trace level. The proposed method includes extraction of PM 10-bound pesticides by microwave-assisted extraction (MAE) followed by a gel permeation chromatography (GPC) clean-up and determination by GC-MS/MS. The injection mode and the main parameters in MS/MS were optimized. The matrix effect was also evaluated. Recoveries ranged from 70 to 120% except for pyrimethanil and pirimicarb. The limit of quantification (LOQ) ranged from 1.32 to 39.47 pg m[super]-3, when air volumes of 760 m[super]3 were collected. The method was applied to 38 samples collected from a rural station belonging to the atmospheric monitoring network of the Regional Valencia Government (Spain) during April-June 2010. Eighteen out of 40 pesticides investigated were found in at least one sample (bifenthrin, chlorothalonil, chlorpyriphos-e, chlorpyriphos-m, clorpropham, diazinon, dicofol, diphenylamine, fipronil, fludioxonil, folpet, malathion, metalaxyl, penconazole, quinoxyfen, triadimefon, trifluralin, and vinclozoline), with concentrations ranging from 1.32 to 625.80 pg m[super]-3.  
Keywords: Chromatography  
Keywords: Spain  
Keywords: Mass spectrometry  
Keywords: Particulates  
Keywords: Atmospheric circulation-oceanic circulation coupled models  
Keywords: Malathion  
Keywords: M2 551.510.42:Air Pollution (551.510.42)  
Keywords: Environment Abstracts; Meteorological & Geoastrophysical Abstracts  
Keywords: Gas chromatography  
Keywords: fipronil  
Keywords: Spain, Valencia  
Keywords: Pesticides  
Keywords: Trifluralin  
Keywords: ENA 01:Air Pollution  
Keywords: Rural areas English. Date revised - 2011-06-01. Last updated - 2012-03-29. DOI - e178a357-ab57-46a8-8b21csaobj201; 14977508; 0003-2670. SubjectsTermNotLitGenreText - Gas chromatography; Chromatography; Mass spectrometry; Atmospheric circulation-oceanic circulation coupled models; fipronil; Pesticides; Trifluralin; Particulates; Malathion; Rural areas; Spain; Spain, Valencia

160. Coscolla, Clara; Colin, Patrice; Yahyaoui, Abderrazak; Petrique, Olivier; Yusa, Vicent; Mellouki, Abdelwahid; Pastor, Agustin, and CoscollA, Clara. Occurrence of Currently Used Pesticides in Ambient Air of Centre Region (France). 2010 Oct; 44, (32): 3915-3925.   
Rec #: 6810  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Ambient air samples were collected, from 2006 to 2008 at three rural and two urban sites in Centre Region (France) and analyzed for 56 currently used pesticides (CUPs), of which 41 were detected. The four CUPs most frequently detected were the herbicides trifluralin, acetochlor and pendimethalin and the fungicide chlorothalonil, which were found with frequencies ranging between 52 and 78%, and with average concentrations of 1.93, 1.32, 1.84 and 12.15ngma3, respectively. Among the detected pesticides, concentrations of eight fungicides (spiroxamine, fenpropimorph, cyprodinil, tolyfluanid, epoxiconazole, vinchlozolin, fluazinam, fludioxinil), two insecticides (propargite, ethoprophos), and one herbicide (oxyfluorfen) are, to our knowledge, reported for the first time in the literature. The majority of the CUPs showed a seasonal trend, with most of the detections and the highest concentrations occurring during the spring and early summer. The most important pesticides detected were related to arable crops and fruit orchards, the main cultures in this region, highlighting the fact that the main sources come from local applications. Minor differences were found in the profiles of pesticides within rural areas and between rural and urban areas.  
Keywords: P 0000:AIR POLLUTION  
Keywords: Herbicides  
Keywords: Environmental Studies  
Keywords: France  
Keywords: Sulfur dioxide  
Keywords: Pesticides  
Keywords: Fungicides  
Keywords: Air sampling  
Keywords: M2 551.5:General (551.5)  
Keywords: summer  
Keywords: Trifluralin  
Keywords: Meteorological & Geoastrophysical Abstracts; Pollution Abstracts; Environment Abstracts  
Keywords: Seasonal variations  
Keywords: pendimethalin  
Keywords: ENA 01:Air Pollution  
Keywords: Rural areas English. Date revised - 2011-10-01. Last updated - 2011-12-08. DOI - OB-5898967e-37e0-4e37-99c0csaobj202; 13637768; 1352-2310. SubjectsTermNotLitGenreText - Fungicides; Rural areas; Sulfur dioxide; Pesticides; Air sampling; Trifluralin; summer; Herbicides; pendimethalin; Seasonal variations; France

161. Coscolla, Clara; Yusa, Vicent; Beser, M Isabel; Pastor, Agustin, and Coscolla, Clara. Multi-Residue Analysis of 30 Currently Used Pesticides in Fine Airborne Particulate Matter (Pm 2.5) By Microwave-Assisted Extraction and Liquid Chromatography-Tandem Mass Spectrometry. 2009 Dec 18; 1216, (51): 8817-8827.   
Rec #: 7260  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A confirmatory and rapid procedure has been developed for the determination of 30 currently used pesticides (CUP) in fine airborne particulate matter (PM 2.5) at trace level. The proposed method includes extraction of PM 2.5-bound pesticides by microwave-assisted extraction (MAE) followed by a direct injection into LC-MS/MS. The main parameters affecting the MAE extraction (time, temperature and volume of solvent) were optimised using statistical design of experiments (DoE). The matrix effect was also evaluated. Recoveries ranged from 72 to 109% and the limit of quantification (LoQ) was 32.5 pg m super(-3) for chlorpyrifos, 13.5 pg m super(-3) for fenhexamid, imazalil and prochloraz, and 6.5 pg m super(-3) for the rest of pesticides, when air volumes of 760 m super(3) were collected. The method was applied to 54 samples collected from three stations of the atmospheric monitoring network of the Regional Valencia Government (Spain) during April-July 2009. Nineteen out of 30 pesticides investigated were found in at least one sample: omethoate, carbendazim, acetamiprid, thiabendazole, malathion, flusilazole, metalaxyl, azoxystrobin, iprovalicarb, myclobutanil, tebuconazole, triflumizole, cyprodinil, tebufenpyrad, buprofezin, pyriproxyfen, hexythiazox, flufenoxuron and fenazaquin. The measured concentrations ranged from 6.5 to 1208 pg m super(-3). To our knowledge, 11 of the pesticides detected have been reported for the first time in ambient air.  
Keywords: P 0000:AIR POLLUTION  
Keywords: Chromatography  
Keywords: Spain  
Keywords: Solvents  
Keywords: Temperature  
Keywords: Statistical analysis  
Keywords: Mass spectrometry  
Keywords: Particulates  
Keywords: Malathion  
Keywords: Chlorpyrifos  
Keywords: M2 551.510.42:Air Pollution (551.510.42)  
Keywords: Pollution Abstracts; Meteorological & Geoastrophysical Abstracts  
Keywords: Spain, Valencia  
Keywords: Pesticides  
Keywords: Atmospheric monitoring English. Date revised - 2010-03-01. Last updated - 2012-03-29. DOI - MD-0011340607; 11309966; 0021-9673. SubjectsTermNotLitGenreText - Chromatography; Statistical analysis; Mass spectrometry; Chlorpyrifos; Pesticides; Temperature; Solvents; Particulates; Atmospheric monitoring; Malathion; Spain; Spain, Valencia

162. Costa, Michael D; Freitas, Mayara L; Soares, Felix Alexandre Antunes; Carratu, Vanessa Santana; Brandao, Ricardo, and Costa, Michael D. Potential of Two New Oximes in Reactivate Human Acetylcholinesterase and Butyrylcholinesterase Inhibited by Organophosphate Compounds: an in Vitro Study. 2011 Dec; 25, (8): 2120-2123.   
Rec #: 3020  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organophosphate (OP) compounds exert inhibition on cholinesterase (ChE) activity by irreversibly binding to the catalytic site of the enzyme. Oximes are compounds generally used to reverse the ChE inhibition caused by OP agents. In this study, we compared the in vitro reactivation potency of two new oximes (oxime 1: butane-2,3-dionethiosemicarbazone; oxime 2: 3-(phenylhydrazono) butan-2-one) against the inhibition on acetylcholinesterase (AChE) and butyrylcholinesterase (BChE) activities induced by chlorpyrifos, diazinon and malathion. Oximes used clinically (obidoxime and pralidoxime) were used as positive control. For this study, human blood (erythrocytes for AChE determination and plasma for BChE determination) was used and different concentrations of oximes (1-100 mu M) were tested. The concentrations of OP used were based on the IC50 for AChE and BChE. Results demonstrated that obidoxime was more effective in reactivate the AChE inhibition induced by OP compounds. However, both newly developed oximes achieved similar reactivations rates that pralidoxime for chlorpyrifos and diazinon-inhibited AChE. For BChE reactivation, none of evaluated oximes achieved positives rates of reactivation, been obidoxime able to reactivate malathion-inhibited BChE only in 24% at the highest concentration. We conclude that both newly developed oximes seem to be promising reactivators of OP-inhibited AChE.  
Keywords: obidoxime  
Keywords: Acetylcholinesterase  
Keywords: Erythrocytes  
Keywords: Enzymes  
Keywords: organophosphates  
Keywords: Cholinesterase  
Keywords: Malathion  
Keywords: Chlorpyrifos  
Keywords: Blood  
Keywords: oximes  
Keywords: Active sites  
Keywords: X 24330:Agrochemicals  
Keywords: Toxicology Abstracts  
Keywords: Diazinon English. Date revised - 2011-12-01. Last updated - 2012-03-29. DOI - 24e28ee8-bec7-47cf-9ab4csamfg201; 16058565; 0887-2333. SubjectsTermNotLitGenreText - Chlorpyrifos; Blood; obidoxime; Acetylcholinesterase; oximes; Erythrocytes; Enzymes; organophosphates; Active sites; Cholinesterase; Diazinon; Malathion

163. Cowman, D. F. and Mazanti, L. E. Ecotoxicology of "New Generation" Pesticides to Amphibians. 2000: 233-267.   
Rec #: 1600  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ACP,ATZ,AZ,CBF,CBL,CPY,Conazoles,DDVP,DM,DMDP,DMT,DQTBr,DU,DZ,EFV,ES,FNT,FNV,GYP,HXZ,MLN,MLT,MP,MYC,MZB,Maneb,Naled,OML,PMR,PPX,PQT,PRT,PSM,RTN,TFN,TMP,TPR), NO REVIEW (ACP,ATZ,AZ,CBF,CBL,CPY,Conazoles,DDVP,DM,DMDP,DMT,DQTBr,DU,DZ,EFV,ES,FNT,FNV,GYP,HXZ,MLN,MLT,MP,MYC,MZB,Maneb,Naled,OML,PMR,PPX,PQT,PRT,PSM,RTN,TFN,TMP,TPR)  
Notes: Chemical of Concern: ACP,ATZ,AZ,CBF,CBL,CPY,DBN,DDVP,DM,DMDP,DMT,DQTBr,DU,DZ,EFV,EPRN,ES,FNT,FNTH,FNV,GYP,HXZ,MCPA,MLN,MLT,MP,MSMA,MYC,MZB,Maneb,Naled,OML,PIM,PMR,PPX,PQT,PRN,PRT,PSM,RTN,TBT,TFN,TMP,TPR,TRL

164. Crawford, K. D.; Weinstein, J. E.; Hemingway, R. E.; Garner, T. R., and Globensky, G. A Survey of Metal and Pesticide Levels in Stormwater Retention Pond Sediments in Coastal South Carolina. 2010; 58, 9-23.   
Rec #: 1700  
Keywords: FATE  
Call Number: NO FATE (AZ,CMPH,CPY,CPYM,Cr,Cr element,Cu,DDVP,DMT,DS,DZ,EP,ES,ESS,MLN,MP,MVP,PIRM,PRT,Zn,Zn element)  
Notes: Chemical of Concern: AND,AZ,Al,CMPH,CPY,CPYM,Cr,Cr element,Cu,DDE,DDVP,DLD,DMT,DS,DZ,EN,EP,ES,ESS,ETN,FNF,HCCH,HPT,MLN,MP,MVP,MXC,PBDE,PHSL,PIRM,PPCP,PRT,Zn,Zn element

165. Crew, A.; Lonsdale, D.; Byrd, N.; Pittson, R., and Hart, J. P. A screen-printed, amperometric biosensor array incorporated into a novel automated system for the simultaneous determination of organophosphate pesticides. 2011 Feb 15-; 26, (6): 2847-2851.   
Rec #: 1610  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Organophosphate pesticides present serious risks to human and environmental health. A rapid reliable, economical and portable analytical system will be of great benefit in the detection and prevention of contamination. A biosensor array based on six acetylcholinesterase enzymes for use in a novel automated instrument incorporating a neural network program is described. Electrochemical analysis was carried out using chronoamperometry and the measurement was taken 10 s after applying a potential of 0 V vs. Ag/AgCl. The total analysis time for the complete assay was less than 6 min. The array was used to produce calibration data with six organophosphate pesticides (OPs) in the concentration range of 10ęĆ5 M to 10ęĆ9 M to train a neural network. The output of the neural network was subsequently evaluated using different sample matrices. There were no detrimental matrix effects observed from water, phosphate buffer, food or vegetable extracts. Furthermore, the sensor system was not detrimentally affected by the contents of water samples taken from each stage of the water treatment process. The biosensor system successfully identified and quantified all samples where an OP was present in water, food and vegetable extracts containing different OPs. There were no false positives or false negatives observed during the evaluation of the analytical system. The biosensor arrays and automated instrument were evaluated in situ in field experiments where the instrument was successfully applied to the analysis of a range of environmental samples. It is envisaged that the analytical system could provide a rapid detection system for the early warning of contamination in water and food. Acetylcholinesterase/ Organophosphate/ Screen-printed carbon electrode/ Biosensor/ Chronoamperometry http://www.sciencedirect.com/science/article/pii/S0956566310007827

166. Cui, Na; Zhang, Xiaoxiang; Xie, Qing; Wang, Se; Chen, Jingwen; Huang, Liping; Qiao, Xianliang; Li, Xuehua, and Cai, Xiyun. Toxicity profile of labile preservative bronopol in water: The role of more persistent and toxic transformation products. 2011 Feb; 159, (2): 609-615.   
Rec #: 1200  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Transformation products usually differ in environmental behaviors and toxicological properties from the parent contaminants, and probably cause potential risks to the environment. Toxicity evolution of a labile preservative, bronopol, upon primary aquatic degradation processes was investigated. Bronopol rapidly hydrolyzed in natural waters, and primarily produced more stable 2-bromo-2-nitroethanol (BNE) and-ábromonitromethane (BNM). Light enhanced degradation of the targeted compounds with water site specific photoactivity. The bond order analysis theoretically revealed that the reversible retroaldol reactions were primary degradation routes for bronopol and BNE. Judging from toxicity assays and the relative pesticide toxicity index, these degradation products (i.e., BNE and BNM), more persistent and higher toxic than the parent, probably accumulated in natural waters and resulted in higher or prolonging adverse impacts. Therefore, these transformation products should be included into the assessment of ecological risks of non-persistent and low toxic chemicals such as the preservative bronopol. Bronopol/ Transformation products/ Hydrolysis/ Photolysis/ Toxicity http://www.sciencedirect.com/science/article/pii/S0269749110004562

167. Cutkomp, L. K.; Yap, H. H.; Cheng, E. Y., and Koch, R. B. ATPase Activity in Fish Tissue Homogenates and Inhibitory Effects of DDT and Related Compounds. 18279//: 1971; 3, (6): 439-447.   
Rec #: 980  
Keywords: IN VITRO  
Call Number: NO IN VITRO (DCF,DDVP,MLN)  
Notes: Chemical of Concern: AND,DCF,DDE,DDT,DDVP,DLD,EN,HPT,MLN,MXC

168. Da Silva, R. L.; Da Silva, C. P., and Navickiene, S. Multiresidue determination of carbamate, organochlorine, organophosphorus, and dicarboximide pesticides in lettuce by GC/MS. 2010; 45, 589-594.   
Rec #: 12760  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: An extraction method based on matrix solid-phase dispersion was developed to determine pirimicarb, methyl parathion, malathion, procymidone, alpha-endosulfan and beta-endosulfan in lettuce using gas chromatography-mass spectrometry. The best results were obtained using 4.0 g of lettuce, 2.0 g of silica as dispersant sorbent, 0.1 g of activated carbon as clean up sorbent and acetonitrile as eluting solvent. The method was validated using lettuce samples fortified with pesticides at six different concentration levels (0.1 to 2.0 mg/kg). Average recoveries (7 replicates) ranged from 50 to 120 %, with relative standard deviations between 0.6 and 8.0 %. Detection and quantification limits for lettuce ranged from 0.01 to 0.02 mg/kg and 0.04 to 0.10 mg/kg, respectively.  
Number of Volumes: 6  
ISI Document Delivery No.: 675VP <Go to ISI>://CCC:000283868500008

169. Daba, Daniel; Hymete, Ariaya; Bekhit, Adnan a; Mohamed, Abdel Maaboud I; Bekhit, Alaa El-Din a, and Bekhit, Adnan A. Multi Residue Analysis of Pesticides in Wheat and Khat Collected From Different Regions of Ethiopia. 2011 Mar; 86, (3): 336-341.   
Rec #: 6530  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The present study investigated the presence and level of pesticide residues in wheat and khat samples collected from various localities of Ethiopia. The khat samples from Galemso and Aseno had p,p'-DDT concentrations ranged from 141.2 to 973.0 mu g/Kg and 194.3-999.0 mu g/Kg, respectively. Diazinon was detected in all the khat samples from BadaBuna (173.9-686.9 mu g/Kg) but not in any of the samples from Galemso and Aseno. Diazinon was detected in all the wheat samples obtained from both Arsi and Bale (125.8 and 125.6 mu g/Kg, respectively) and aldrin levels in these samples were below the quantification limit. Khat may be a contributing factor in the pathological diseases found among khat users.  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2011-03-01. Last updated - 2011-11-09. DOI - OB-ffc09c9e-ec0a-4f8c-b41fmfgefd108; 14444715; 0007-4861; 1432-0800

170. Dai, Ronghua; Ren, Xuedong; He, Xiao; Huo, Yanshuang, and Dai, Ronghua. Convenient Analytical Method for Quantitative Determination of 23 Pesticide Residues in Herbs by Gas Chromatography-Mass Spectrometry. 2011 Jun; 86, (6): 559-564.   
Rec #: 6300  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A convenient analytical method for quantitative characterization of 23 pesticides in three herbs has been developed. Pesticides tested included organochlorine, organophosphorus and pyrethroids. Primary secondary amine and graphitized carbon black as dispersive-SPE sorbent were applied to clean up the sample. Analytical method was established by using the technique of gas chromatography coupled with electron impact mass spectrometry in the selected ion monitoring mode (GC-MS-SIM). The recoveries of all pesticides were in the range of 78.4%-119.2% at three spiked levels of 5, 20 and 50 mu g/kg, and the relative standard deviations were below 9.5%. The limits of detections of all pesticides were less than 3.0 mu g/kg. This analytical method could be applied to the analysis of commonly used pesticides in commercial herbs.  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2011-05-01. Last updated - 2011-11-04. DOI - OB-961ec98d-a877-4810-a441mfgefd107; 14884200; 0007-4861; 1432-0800

171. Daly, I. W. A 24-Month Oral Toxicity/Oncogenicity Study of Malaoxon in the Rat via Dietary Administration. 1966.  
Rec #: 500  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLO)  
Notes: Chemical of Concern: MLO

172. ---. A 28-Day Study of Malathion in the Rat via Dietary Administration. 1993.  
Rec #: 520  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

173. ---. A Subchronic (3-Month) Oral Toxicity Study of Malathion in the Rat via Dietary Administration. 1993.  
Rec #: 510  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

174. Daly, J. W. A 24-Month Oral Toxicity/Oncogenicity Study of Malathion in the Rat via Dietary Administration. 1996.  
Rec #: 530  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

175. Dang, Zhichao; Li, Kang; Yin, Haowen; Hakkert, Betty; Vermeire, Theo, and Dang, ZhiChao. Endpoint Sensitivity in Fish Endocrine Disruption Assays: Regulatory Implications. 2011 Apr 10; 202, (1): 36-46.   
Rec #: 6440  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Identifying potential endocrine disrupting chemicals (EDCs) needs screening and testing for mode of action (MOA) and intrinsic toxicological properties. MOA is often indicated by biomarker endpoints, whereas toxicity by apical endpoints. Risk assessment is mainly based on apical but not on biomarker endpoints. The 21-day fish assay (OECD TG229) is considered a screening test. But it includes both biomarker and apical endpoints. This study explores the utility of results of the 21-day fish assay for risk assessment purposes. Endpoint sensitivity was analysed by compiling 142 data sets for 21-day fish assays and 38 data sets for the fish sexual development test (FSDT), encompassing 62 chemicals with different MOAs. Conclusions from this analysis include: (1) vitellogenin (VTG), fecundity and gonad histology are the most sensitive endpoints for fathead minnow, medaka and zebrafish in 21-day fish assays; secondary sex characteristics (SSC) are a less sensitive endpoint and is likely inadequate to detect all known MOAs. (2) Biomarker endpoints like VTG and apical endpoints like fecundity from the 21-day fish assay can be used for risk assessment. (3) Lowest observed effect concentrations (LOECs) of the most chemicals are comparable for the 21-day fish assay and for the FSDT, further supporting that results of 21-day fish assays can be used for risk assessment. However, a significant difference in LOECs was observed for some chemicals, suggesting that chemical specific effects should be taken into account. This paper emphasizes that a weight of evidence approach is important for interpretation of results of the 21-day fish assay.  
Keywords: Chemicals  
Keywords: Risk assessment  
Keywords: Bioindicators  
Keywords: Sensitivity  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Pharmacy And Pharmacology  
Keywords: Oryzias latipes  
Keywords: Data processing  
Keywords: endocrine disruptors  
Keywords: Endocrine disruptors  
Keywords: Toxicity  
Keywords: biomarkers  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: fecundity  
Keywords: Danio rerio  
Keywords: Fecundity  
Keywords: Histology  
Keywords: Vitellogenin  
Keywords: Gonads  
Keywords: Fish  
Keywords: X 24300:Methods  
Keywords: Sex English. Date revised - 2011-10-01. Last updated - 2011-12-17. DOI - OB-72094e84-aeb8-4569-884ecsamfg201; 14524896; 0378-4274. SubjectsTermNotLitGenreText - Risk assessment; Data processing; Fecundity; Vitellogenin; Endocrine disruptors; Gonads; Toxicity; biomarkers; Sex; fecundity; Bioindicators; Chemicals; Sensitivity; Histology; endocrine disruptors; Fish; Danio rerio; Oryzias latipes

176. Dang, Zhichao; Ru, Shaoguo; Wang, Wei; Rorije, Emiel; Hakkert, Betty; Vermeire, Theo, and Dang, ZhiChao. Comparison of Chemical-Induced Transcriptional Activation of Fish and Human Estrogen Receptors: Regulatory Implications. 2011 Mar 5; 201, (2): 152-175.   
Rec #: 6490  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Under the current EU chemical regulation REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), revised plant protection products and biocides directives, evaluation of endocrine disrupting properties of chemicals becomes a regulatory need. Transcriptional activation (TA) testing of estrogen receptors (ERs) could be one important first step in the screening and testing of endocrine disrupting chemicals (EDCs) for regulatory purposes. However up to now there is no consensus on which species or subtype of ERs should be used for TA testing. This study collected data from publications on TA testing with fish and human ERs for 90 chemicals, covering strong, moderate, and weak or non-ER binders. Each chemical has been reported at least twice, with differential ER TA values that result from different cellular contexts, from intra-/inter-species and subtypes of ERs and from intra-/inter-laboratory differences. All assays could distinguish the differential transcriptional activity induced by chemicals of strong, moderate, and weak or non-ER binders. It is concluded that transactivation of ERs in one vertebrate species or one subtype of ERs could be extrapolated to other species or subtypes of ERs for the purpose of chemical screening. It is emphasized that results from ER TA assays can only be used in a weight-of-evidence approach for further testing in regulatory programs. These results are of importance for regulatory testing strategies and decision making for EDCs.  
Keywords: Decision making  
Keywords: Data processing  
Keywords: Pharmacy And Pharmacology  
Keywords: Plant protection  
Keywords: Endocrine disruptors  
Keywords: Biocides  
Keywords: Estrogen receptors  
Keywords: Toxicology Abstracts  
Keywords: X 24300:Methods  
Keywords: Transcription activation English. Date revised - 2011-10-01. Last updated - 2011-12-12. DOI - OB-1f9f1213-5bf5-4ea9-ac2fcsamfg201; 14365945; 0378-4274. SubjectsTermNotLitGenreText - Decision making; Data processing; Plant protection; Endocrine disruptors; Biocides; Estrogen receptors; Transcription activation

177. Darwish, Ragaa; Sherif, Naima; Hassan, Mona, and Mahrous, Hanan. Chromosomal aberrations as biomarker of exposure to malathion in agriculture workers. 2012 Jun 17-; 211, Supplement, (0): S64.   
Rec #: 480  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: http://www.sciencedirect.com/science/article/pii/S0378427412003554

178. Das, Yavuz Kursad; Kaya, Sezai, and Das, Yavuz Kursad. Organophosphorus Insecticide Residues in Honey Produced in Turkey. 2009 Sep; 83, (3): 378-383.   
Rec #: 7440  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this study, a number of 15 organophoshorus (OP) insecticides were investigated in 275 honey samples in 33 different cities of Turkey, using gas chromatography electron capture detector. The limit of determination values was detected between 0.25 and 9.55ngg super(-1). The correlation coefficients obtained from calibration curves of the OP standards were found to be between 0.992 and 0.999. No insecticide residue was detected in the samples analyzed. This result is highly significant because of its impacts on public health and food safety.  
Keywords: Health & Safety Science Abstracts; Pollution Abstracts; Environment Abstracts; Environmental Engineering Abstracts; Toxicology Abstracts  
Keywords: Organophosphorus compounds  
Keywords: Residues  
Keywords: Food  
Keywords: Turkey  
Keywords: Insecticide residues  
Keywords: EE 10:General Environmental Engineering  
Keywords: Food contamination  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Environmental Studies  
Keywords: Public health  
Keywords: Insecticides  
Keywords: Gas chromatography  
Keywords: X 24330:Agrochemicals  
Keywords: H 4000:Food and Drugs  
Keywords: Honey  
Keywords: Urban areas English. Date revised - 2010-02-01. Last updated - 2011-10-25. DOI - OB-MD-0010969011; 11767831; 0007-4861; 1432-0800. SubjectsTermNotLitGenreText - Insecticides; Gas chromatography; Food; Honey; Public health; Organophosphorus compounds; Residues; Insecticide residues; Food contamination; Urban areas; Turkey

179. De Bruijn, J. and Hermens, J. Qualitative and Quantitative Modelling of Toxic Effects of Organophosphorous Compounds to Fish. 1991: 441-455.   
Rec #: 1260  
Keywords: QSAR,REFS CHECKED,REVIEW  
Call Number: NO QSAR (FNT,MLN,MP,PIRM), NO REFS CHECKED (FNT,MLN,MP,PIRM), NO REVIEW (FNT,MLN,MP,PIRM)  
Notes: Chemical of Concern: FNT,FNTH,MLN,MP,PIRM

180. De, Chandrima; Samuels, Tova A.; Haywood, Tajay L.; Anderson, Ginger A.; Campbell, Keith; Fletcher, Kenneth; Murray, Desmond H., and Obare, Sherine O. Dual colorimetric and electrochemical sensing of organothiophosphorus pesticides by an azastilbene derivative. 2010 Mar 31-; 51, (13): 1754-1757.   
Rec #: 1750  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: We have investigated the optical and electrochemical changes of the azastilbene, dimethyl-[4-(2-quinolin-2-yl-vinyl)-phenyl]-amine (DQA), with four organothiophosphorus (OTP) pesticides: ethion, malathion, parathion, and fenthion. Significant changes in UVÇôvisible absorbance wavelength and in electrochemical signals indicate the effectiveness of DQA as an OTP sensor. http://www.sciencedirect.com/science/article/pii/S0040403910001486

181. De Llasera, M. P. G.; Cruz-Reyes, L., and Vera-Avila, L. E. A method for the analysis of organophosphorus pesticide residues in Mexican axolotl. 2010; 45, 25-32.   
Rec #: 12830  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A method based on matrix solid-phase dispersion (MSPD) was developed for quantitative extraction of three organophosphorus pesticides (OPPs) from the Mexican axolotl, Ambystoma mexicanum. The determination was carried out using high-performance liquid chromatography (HPLC) with diode array spectrophotometric UV detection (DAD). The MSPD extraction with octadecylsilyl (C18) sorbent combined with a silica gel clean-up and acetonitrile elution was optimised for chlorpyrifos, fenthion and methyl parathion. The method was validated, yielding recovery values higher than 90%. The precision, expressed as the relative standard deviation (RSD), was less than or equal to 6% in muscle samples at spiking levels of 10 and 5 ppm. Linearity was studied from 15 to 60 ppm for chlorpyrifos and fenthion, and from 7.5 to 30 ppm for methyl parathion. The limits of detection (LODs) were found to be less than or equal to 0.5 ppm. This method was applied to the analysis of samples from a chlorpyrifos-exposed axolotl, demonstrating its use as an analytical tool for toxicological studies.  
Number of Volumes: 1  
ISI Document Delivery No.: 535WA <Go to ISI>://CCC:000273001400003

182. Debebe, Amsalu; Kuttalam, S, and Debebe, Amsalu. Parameter Validation of Analytical Methods of Insecticide Residue Analyses in Foods of Animal Origin, Feed and Water. 2011 Jun; 86, (6): 571-575.   
Rec #: 6310  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The study was conducted to examine the interrelationship and coherence of analytical parameters in method validation. Recovery, sensitivity, linearity, precision and limits of detection (LOD) were tested in six methods for organochlorine and organophosphate insecticides. Compounds that fell out of the stipulated recovery, 70-120%, in a matrix have concurrently failed to meet the requirements for sensitivity ( greater than or equal to 0.7), linearity (R super(2)>0.99) and precision (<0.2) in the same matrix. Highest LOD was recorded in those compounds and matrices. Different from the conventional point estimate, a new approach was introduced for setting upper and lower confidence limits of the LOD in quantitative analyses.  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2011-05-01. Last updated - 2011-11-04. DOI - OB-4d66b010-469d-4a0e-bc06mfgefd107; 14884217; 0007-4861; 1432-0800

183. Dek, Yi; Liu, Yong, and Dek, Yi. Study on Analysis of the Organic Phosphorus Pesticide Residues in Soil. 2012 Mar; 31, (3): 89-93.   
Rec #: 2750  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: An analysis method for nine kinds of organophosphate pesticides residues in soil included dichlorvos, methamidophos, phorate, omethoate, diazinon, dimethoate, parathion-methyl, malathion, parathion, isocatbophos and quinalphos was established in this research. The pesticide residues were extracted from soil samples with acetone; dichloromethane =1:3; separated on a capillary column Hp-5MS (30mx0.25 mmx 0.25 mu m) after concentration and detected by gas chromatography with flame photometric detector (GC-FPD). As a result, the detection limits of this method for nine Organophosphate Pesticides were in the range of 0.397~ 1.60 mu g/mL with relative standard deviations ranging from 5.47% to 10.20% (n=5) and the recoveries were from 68.7% to 110.4%. The results indicated that this method could be used for the determination of organophosphate pesticide residues in soil.  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: SW 3040:Wastewater treatment processes  
Keywords: Chromatographic techniques  
Keywords: Laboratories  
Keywords: Pesticide Residues  
Keywords: Q5 01502:Methods and instruments  
Keywords: Malathion  
Keywords: Agricultural Chemicals  
Keywords: Organophosphorus Pesticides  
Keywords: Standard Deviation  
Keywords: Water Resources Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; ASFA 2: Ocean Technology Policy & Non-Living Resources; Aqualine Abstracts  
Keywords: Analytical Methods  
Keywords: Detection Limits  
Keywords: Pesticides  
Keywords: Q2 02403:Chemicals from sea water  
Keywords: Acetone  
Keywords: Organic phosphorus English. Date revised - 2012-06-01. Number of references - 9. Last updated - 2012-12-28. DOI - db9827a5-af9a-4432-9143csamfg201; 16628754; CS1276943; 1000-0720. SubjectsTermNotLitGenreText - Chromatographic techniques; Pesticides; Acetone; Organic phosphorus; Organophosphorus Pesticides; Agricultural Chemicals; Standard Deviation; Detection Limits; Analytical Methods; Laboratories; Pesticide Residues; Malathion. Bouaid, A, Ramos, L, Gonzalez, M J, Fernandez, P, Camara, C. J. Chromatogr. A. 2001. 17. C. ConĂ§alves and M. F. Alpendurada, Talanta, 2005, 65, 1179-1189. G. Durand, R. Forteza and D. Barcelo. Chromatographia, 1989,28 (11-12 ):597. Edwar Fuentes, Maria E. Baez, Ronnie Labra. J Chromatogr A, 2007, 1169(1-2): 40. Elisabeth Yehouenou A. Pazou, Michel Boko. Environ Int,2006, 32: 616. Klaus Wuchner, Rudy T. Ghijsen, Udo A. Analyst, 1993, 118: 11. Milena Domotorova, Eva Matisova. J Chromatog A, 2008,1207; 1. Wang, S; Zhao, P; Min, G; Fang, G Z. J. Chromatogr. A, 1165. (2007): 166-171. Zhu X L, Yang J, Su Q D. J Chromatogr A,2005, 1092 (2):161

184. Delgado, Y; Forteza, R; Martin, V C; Del Rosario Bruneto, M; Gallignani, M, and Delgado, Y. Multisyringe Flow Injection System for the Solid-Phase Extraction of Organophosphorus Pesticides From Drinking Water and Its Determination by Gc-Ms. 2010 Dec; 18, (4): 280-291.   
Rec #: 3870  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this work we developed a selective and reproducible method to assess organophosphorus pesticides (POPs) in human drinking water by gas chromatography (GC) with mass spectrometry (MS) detection. The extraction of POPs was performed in a solid-phase extraction disk module placed in a multisyringe flow injection system (MSFIA) that allowed the automation of the analytical procedure with a substantial saving of solvents and time, a reduction in waste generation and cost per analysis. The method was linear over concentration range 0.075-5.0 mu g/L with a limit of detection of 0.01 mu g/L for Diazinon and Chlorpyrifos, and 0.05 mu g/L for Malathion and Methyl Parathion respectively. Quantitative recoveries from spiked water samples were between 91.7 y 102.8% with a C.V. less than or equal to 3.6%. The method was successfully applied for the determination of pesticides in tap water and tap water samples enriched with pesticides in the concentration range between 0.15 and 5.0 mu g/L, with a higher sampling throughput of 10 samples/h.Original Abstract: En el presente trabajo se desarrollo un metodo selectivo y reproducible para evaluar plaguicidas organofosforados (POFs) en aguas de consumo humano por cromatografia de gases (CG) con detection por espectrometria de masa (EM). La extraccion en fase solida de los POFs en disco, se realizo en un sistema de inyeccion en flujo multijeringa (MSFIA) que permitio la automatizacion del procedimiento analitico con un importante ahorro de disolventes y tiempo, una reduccion en la generacion de residuos y del coste por analisis. La validacion del metodo indico linealidad entre 0,075-5,0 mu g/L con limites de detection de 0,01 mu g/L para Diazinon y Clorpirifos y de 0,05 mu g/L para Malation y Metil paration respectivamente. La recuperacion para todos los casos estuvo comprendida entre 91,7 y 102,8% con un C.V. less than or equal to 3,6%. El metodo propuesto se utilizo para analizar aguas de grifo y agua de grifo enriquecidas con los plaguicidas en el intervalo de concentration entre 0,15 y 5,0 mu g/L con una frecuentia de analisis de 10 muestras/hora.  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: Mass Spectrometry  
Keywords: Water sampling  
Keywords: Water Analysis  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Solvents  
Keywords: Automation  
Keywords: Mass spectrometry  
Keywords: Aqualine Abstracts; Water Resources Abstracts; Pollution Abstracts  
Keywords: Injection  
Keywords: Malathion  
Keywords: Chlorpyrifos  
Keywords: Drinking Water  
Keywords: Agricultural Chemicals  
Keywords: Organophosphorus Pesticides  
Keywords: Gas chromatography  
Keywords: Pesticides  
Keywords: SW 3060:Water treatment and distribution  
Keywords: Sampling  
Keywords: Drinking water  
Keywords: Parathion Spanish. Date revised - 2011-09-01. Last updated - 2012-04-23. DOI - MD-0017328737; 15630796; 1315-2076. SubjectsTermNotLitGenreText - Chlorpyrifos; Water sampling; Gas chromatography; Pesticides; Solvents; Mass spectrometry; Drinking water; Malathion; Parathion; Mass Spectrometry; Organophosphorus Pesticides; Agricultural Chemicals; Drinking Water; Water Analysis; Automation; Sampling; Injection

185. Derbalah, A. S. Efficacy of Some Botanical Extracts Against Trogoderma Granarium in Wheat Grains With Toxicity Evaluation.   
Rec #: 8340  
Keywords: BIOLOGICAL TOXICANT  
Notes: Chemical of Concern: MLN   
Abstract: COMMENTS: Cites: Clin Chem. 1969 Jun;15(6):487-95 (medline /5786804)  
COMMENTS: Cites: Analyst. 1972 Feb;97(151):142-5 (medline /5037807)  
COMMENTS: Cites: Toxicol Appl Pharmacol. 1982 Sep 30;65(3):413-24 (medline /7157374)  
COMMENTS: Cites: Am J Clin Pathol. 1957 Jul;28(1):56-63 (medline /13458125)  
COMMENTS: Cites: Cornell Vet. 1959 Jan;49(1):116-26 (medline /13619298)  
COMMENTS: Cites: J Nat Prod. 2002 Aug;65(8):1107-10 (medline /12193012)  
COMMENTS: Cites: Nutr Metab (Lond). 2007;4:4 (medline /17313679)  
ABSTRACT: In an attempt to find alternative control methods for stored products insects, **extracts of seven plant species** (Cassia senna, Caesalpinia gilliesii, Thespesia populnea var. acutiloba, Chrysanthemum frutescens, Euonymus japonicus, Bauhinia purpurea, and Cassia fistula) were evaluated under laboratory conditions for their ability to protect wheat (Triticum spp.) grains against **Trogoderma granarium insect**. Moreover, gas chromatography-mass spectrometry (GC-MS) analysis was carried to identify the chemical components of the most effective plant extract against T. granarium. Furthermore, the safety of the most effective plant extract was evaluated with respect to biochemical and histological changes in treated rats relative to control. The results revealed that, the tested botanical extracts showed high efficiency against T. granarium with respect to mortality and progeny of the adults. C. senna was the most effective botanical extract against T. granarium. The GC-MS analysis of the most effective plant extract showed the presence of different bioactive compounds that is known by its insecticidal activity. The most effective plant extract showed no toxicity on treated **rats** relative to control with respect to biochemical and histological changes. The results suggest the ability of using these plant extracts for wheat grains protection as a safe alternative to insecticides.  
MESH HEADINGS: Animals  
MESH HEADINGS: Beetles/\*drug effects  
MESH HEADINGS: Chrysanthemum/chemistry  
MESH HEADINGS: Drug Evaluation, Preclinical  
MESH HEADINGS: Euonymus/chemistry  
MESH HEADINGS: Gas Chromatography-Mass Spectrometry  
MESH HEADINGS: Insecticides/isolation &amp  
MESH HEADINGS: purification/pharmacology  
MESH HEADINGS: Kidney/drug effects/pathology  
MESH HEADINGS: Liver/drug effects/enzymology/pathology  
MESH HEADINGS: Malathion/pharmacology  
MESH HEADINGS: Male  
MESH HEADINGS: Pest Control, Biological/\*methods  
MESH HEADINGS: Plant Extracts/chemistry/\*pharmacology  
MESH HEADINGS: Rats  
MESH HEADINGS: Rats, Wistar  
MESH HEADINGS: Seeds/chemistry/\*parasitology  
MESH HEADINGS: Senna Plant/chemistry  
MESH HEADINGS: Toxicity Tests  
MESH HEADINGS: Triticum/chemistry/\*parasitology eng

186. Deziel, Nicole C; Viet, Susan M; Rogers, John W; Camann, David E; Marker, David a; Heikkinen, Maire Sa; Yau, Alice Y; Stout, Daniel M; Dellarco, Michael, and Deziel, Nicole C. Comparison of Wipe Materials and Wetting Agents for Pesticide Residue Collection From Hard Surfaces. 2011 Sep 15; 409, (20): 4442-4448.   
Rec #: 6180  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Different wipe materials and wetting agents have been used to collect pesticide residues from surfaces, but little is known about their comparability. To inform the selection of a wipe for the National Children's Study, the analytical feasibility, collection efficiency, and precision of Twillwipes wetted with isopropanol (TI), Ghost Wipes (GW), and Twillwipes wetted with water (TW), were evaluated. Wipe samples were collected from stainless steel surfaces spiked with high and low concentrations of 27 insecticides, including organochlorines, organophosphates, and pyrethroids. Samples were analyzed by GC/MS/SIM. No analytical interferences were observed for any of the wipes. The mean percent collection efficiencies across all pesticides for the TI, GW, and TW were 69.3%, 31.1%, and 10.3% at the high concentration, respectively, and 55.6%, 22.5%, and 6.9% at the low concentration, respectively. The collection efficiencies of the TI were significantly greater than that of GW or TW (p<0.0001). Collection efficiency also differed significantly by pesticide (p<0.0001) and spike concentration (p<0.0001). The pooled coefficients of variation (CVs) of the collection efficiencies for the TI, GW, and TW at high concentration were 0.08, 0.17, and 0.24, respectively. The pooled CV of the collection efficiencies for the TI, GW, and TW at low concentration were 0.15, 0.19, and 0.36, respectively. The TI had significantly lower CVs than either of the other two wipes (p=0.0008). Though the TI was superior in terms of both accuracy and precision, it requires multiple preparation steps, which could lead to operational challenges in a large-scale study.  
Keywords: Feasibility studies  
Keywords: Insecticides  
Keywords: Organochlorine compounds  
Keywords: P 9999:GENERAL POLLUTION  
Keywords: ENA 09:Land Use & Planning  
Keywords: Organophosphates  
Keywords: Pesticide residues  
Keywords: Pollution Abstracts; Environment Abstracts  
Keywords: Steel  
Keywords: Pyrethroids  
Keywords: Children  
Keywords: Environmental Studies English. Date revised - 2012-01-01. Last updated - 2012-08-02. DOI - OB-27574729-9056-4022-b043csamfg201; 15619618; 0048-9697. SubjectsTermNotLitGenreText - Feasibility studies; Insecticides; Organochlorine compounds; Organophosphates; Pesticide residues; Steel; Pyrethroids; Children

187. Dhingra, S. Susceptibility Status of Castor Semilooper, Achaea janata Linn. to Pyrethroids and Non-Pyrethroid Insecticides During the Last Decade. Division of Entomology, Indian Agricultural Research Institute, New Delhi - 110 012, India//: 1998; 22, (1): 43-47.   
Rec #: 100  
Keywords: NO CONC  
Call Number: NO CONC (CYP,DM,ES,FNV,FPP,LCYT,MLN,MP)  
Notes: Chemical of Concern: CYP,DM,ES,FNV,FPP,HCCH,LCYT,MLN,MP,PPCP

188. Domingues, I.; Agra, A. R.; Monaghan, K.; Soares, A. M. V. M., and Nogueira, A. J. A. Cholinesterase and Glutathione-S-Transferase Activities in Freshwater Invertebrates as Biomarkers to Assess Pesticide Contamination. 2010; 29, (1): 5-18.   
Rec #: 110  
Keywords: REVIEW  
Call Number: NO REVIEW (ACP,ADC,AZ,CBF,CBL,CPY,DDVP,ES,FNT,MLN,PIRM,PPX,TCF)  
Notes: EcoReference No.: 152619  
Chemical of Concern: ACP,ADC,AZ,CBF,CBL,CPY,DDVP,EPRN,ES,FNT,MLN,PIRM,PPX,PRN,TCF

189. Donia, a M; Atia, a a; Hussien, R a; Rashad, R T, and Donia, A M. Comparative Study on the Adsorption of Malathion Pesticide by Different Adsorbents From Aqueous Solution. 2012 Sep; 47, (1-3): 300-309.   
Rec #: 2510  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A study on the adsorption behavior and removal of an organophosphorous pesticide, malathion, from aqueous solution was carried out using batch method. The activated charcoal and bentonite clay were selected as commonly used adsorbents to be compared to a less commonly used kaolinite clay. Two thermally treated kaolinite samples were prepared at different temperatures. The samples were investigated by means of X-ray powder diffraction and thermogravimetric analysis. In aqueous medium, the thermally treated clay samples displayed higher adsorption capacities (q sub(e) = 356.06 and 362.37 mu molg super(-1), for kaolinite, and 282.32 mu molg super(-1) for bentonite) relative to that of the untreated one (q sub(e) = 311.87 mu molg super(-1), for kaolinite, and 188.13 mu molg super(-1), for bentonite). In addition, the thermally treated kaolinite samples exhibited faster adsorption rates (k sub(1) = 3.03 x 10 super(-3) and 2.77 x 10 super(-3) min super(-1)) compared with that of the untreated one (k sub(1) = 1.84 x 10 super(-3) min super(-1)). Desorption of malathion from the loaded samples was also carried out for regeneration purposes. The adsorption/desorption cycle of malathion on the kaolinite samples was repeated several times and the removal efficiency of the regenerated kaolinite sample was noticed to decrease after the 3rd cycle.  
Keywords: Kaolinite  
Keywords: Desorption  
Keywords: Pesticides  
Keywords: Adsorption  
Keywords: Adsorbents  
Keywords: Bentonite  
Keywords: Aqueous solutions  
Keywords: Clay (material)  
Keywords: Environmental Engineering Abstracts (EN); CSA / ASCE Civil Engineering Abstracts (CE) English. Date revised - 2012-12-01. Last updated - 2013-05-09. DOI - MD-0020015438; 17344481; 1944-3994

190. Dos Santos, Alessandra Antunes; Dos Santos, Danubia Bonfanti; Dafre, Alcir Luiz; De Bem, Andreza Fabro; Souza, Diogo Onofre; Da Rocha, Joao Batista Teixeira; Kuca, Kamil; Farina, Marcelo, and dos Santos, Alessandra Antunes. In Vitro Reactivating Effects of Standard and Newly Developed Oximes on Malaoxon-Inhibited Mouse Brain Acetylcholinesterase. 2010 Sep; 107, (3): 768-773.   
Rec #: 4030  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Abstract: Malathion is an organophosphate (OP) pesticide whose toxicity depends on its bioactivation to malaoxon. Human malathion poisoning has been treated with oximes (mainly pralidoxime) in an attempt to reactivate OP-inhibited acetylcholinesterase (AChE). However, pralidoxime has shown unsatisfactory therapeutic effects in malathion poisoning and its routine use has been questioned. In this study, we evaluated the in vitro potency of standards and newly developed oximes in reactivating malaoxon-inhibited AChE derived from mouse brain supernatants. Malaoxon displayed a concentration-dependent inhibitory effect on mouse brain AChE (IC50 = 2.36 kM), and pralidoxime caused a modest reactivating effect (30% of reactivation at 600 kM). Obidoxime and trimedoxime, as well as K047 and K075, displayed higher reactivating effects (from 55% to 70% of reactivation at 600 kM) when compared with pralidoxime. The results show that obidoxime, trimedoxime, K074 and K075 present higher reactivating effects on malaoxon-inhibited AChE under in vitro conditions when compared with pralidoxime. Taking into account the unsatisfactory effects of pralidoxime as antidotal treatment in malathion poisonings, the present results suggest that obidoxime, trimedoxime, K074 and K075 might be interesting therapeutic strategies to reactivate malaoxon-inhibited AChE in malathion poisonings.  
Keywords: CSA Neurosciences Abstracts; Toxicology Abstracts  
Keywords: obidoxime  
Keywords: Acetylcholinesterase  
Keywords: oximes  
Keywords: N3 11028:Neuropharmacology & toxicology  
Keywords: Pesticides  
Keywords: Poisoning  
Keywords: Brain  
Keywords: organophosphates  
Keywords: Toxicity  
Keywords: X 24330:Agrochemicals  
Keywords: Malathion English. Date revised - 2010-09-01. Number of references - 44. Last updated - 2012-06-18. DOI - 489b4b7b-7958-414a-a57bcsamfg201; 13529769; 1742-7835. SubjectsTermNotLitGenreText - obidoxime; Acetylcholinesterase; oximes; Pesticides; Brain; Poisoning; organophosphates; Toxicity; Malathion. Abdel-Rahman, Ali; Dechkovskaia, Anjelika M.; Goldstein, Larry B.; Bullman, Sara H.; et al. Neurological deficits induced by malathion, DEET, and permethrin, alone or in combination in adult rats. Journal of Toxicology and Environmental Health - Part A, 67. 4 (2004): 331-356. Taylor and Francis Inc. Abou-Donia, Mohamed B. Organophosphorus ester-induced chronic neurotoxicity. Archives of Environmental Health, 58. 8 (2003): 484-497. Heldref Publications. Antonijevic, Biljana; Stojiljkovic, Milos P. Unequal efficacy of pyridinium oximes in acute organophosphate poisoning. Clinical Medicine and Research, 5. 1 (2007): 71-82. Marshfield Clinic. 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Rec #: 3640  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A method for determining atmospheric concentrations of eight pesticides applied to corn and soybean crops in Mato Grosso state, Brazil is presented. The method involved a XAD-2 resin cartridge coupled to a low volume air pump at 2 L min-1 over 8 hours. Pesticides were recovered from the resin using sonication with n-hexane:ethyl acetate and determined by GC-MS. Good accuracy (76-128%) and precision (CV < 20%) were obtained for atrazine, chlorpyrifos, alpha - and beta -endosulfan, endosulfan sulfate, flutriafol, malathion, metolachlor and permethrin. Method detection ranged from 9.0 to 17.9 ng m super(-3). This method was applied to 61 gas phase samples collected between December 2008 and June 2009. Atrazine and endosulfan were detected both in urban and rural areas indicating the importance of atmospheric dispersion of pesticides in tropical areas. The simple and efficient extraction method and sampling system employed was considered suitable for identifying pesticides in areas of intense agricultural production.  
Keywords: Resins  
Keywords: Pollution detection  
Keywords: P 0000:AIR POLLUTION  
Keywords: Agricultural production  
Keywords: Pollution dispersion  
Keywords: Wastes  
Keywords: Environment Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; Pollution Abstracts  
Keywords: Herbicides  
Keywords: Q5 01502:Methods and instruments  
Keywords: Malathion  
Keywords: Endosulfan  
Keywords: Chlorpyrifos  
Keywords: Acetate  
Keywords: Atrazine  
Keywords: Pesticides  
Keywords: Pumps  
Keywords: Brazil, Mato Grosso  
Keywords: ENA 01:Air Pollution  
Keywords: Dispersion English. Date revised - 2011-04-01. Number of references - 53. Last updated - 2012-12-14. DOI - 3d82958a-bee8-40c2-a841mfgefd101; 14432022; CS1146869; 0360-1234; 1532-4109. SubjectsTermNotLitGenreText - Pollution detection; Acetate; Pesticides; Wastes; Pumps; Herbicides; Dispersion; Chlorpyrifos; Resins; Agricultural production; Pollution dispersion; Atrazine; Malathion; Endosulfan; Brazil, Mato Grosso. Agriculture & Environment Research Unit The Pesticide Properties Database, University of Hertfordshire, Hatfield, UK. Alegria, H. , Bidleman, T. F. and Figueroa, M. S. (2006) Organochlorine pesticides in the ambient air of Chiapas, Mexico. Environ. Pollut., 140, pp. 483-491. Alexandre, F. , Maroco, E. , Yonamine, M. and Oliveira, M. L. F. (2008) Organophosphate and carbamate poisonings in the northwest of Parana state, Brazil from 1994 to 2005: clinical and epidemiological aspects. Rev. Bras. Cienc. Farm., 44, pp. 407-415. 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Waite, D. T. , Cessna, A. J. , Grover, R. , Kerr, L. A. and Snihura, A. D. (2004) Environmental concentrations of agricultural herbicides in Saskatchewan, Canada: bromoxynil, dicamba, diclofop, MCPA, and trifluralin. J. Environ. Qual., 33, pp. 1616-1628. White, L. M. , Ernst, W. R. , Julien, G. , Garron, C. and Leger, M. (2006) Ambient air concentrations of pesticides used in potato cultivation in Prince Edward Island, Canada. Pest Manage. Sci., 62, pp. 126-136. Wood, R. (1999) How to validate analytical methods. Trends Anal. Chem., 18, pp. 624-632. Yao, Y. , Tuduri, L. , Harner, T. , Blanchard, P. , Waite, D. , Poissant, L. , Murphy, C. , Belzer, W. , Aulagnier, F. , Li, Y. F. and Sverko, E. (2006) Spatial and temporal distribution of pesticide air concentrations In Canadian agricultural regions. Atmos. Environ., 40, pp. 4339-4351. Yusa, V. , Coscolla, C. , Mellouki, W. , Pastor, A. and De La Guardia, M. (2009) Sampling and analysis of pesticides in ambient air. J. 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192. Drinkwater, Justin L; Molesworth, Brett Rc, and Drinkwater, Justin L. Pilot See, Pilot Do: Examining the Predictors of Pilots' Risk Management Behaviour. 2010 Dec; 48, (10): 1445-1451.   
Rec #: 6760  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Decision-making under uncertainty, known as risk management, is common in many professions including medicine and the military. Within general aviation, it is a skill that pilots are largely expected to acquire through experience. This study sought to determine if there are known markers (i.e., attitude and risk perception) and or personal characteristics (i.e., flight experience and age) that predict the acquisition and utilization of this skill. Fifty-six participants were presented with a risky flight which involved searching for a wayward parachutist with minimal fuel on board their aircraft. A clear distinction in terms of a~risk perception' was evident between those pilots who elected to undertake the risky flight (36 participants) and those pilots who did not (20 participants). There was also evidence of attitudinal and demographic differences between the two groups. The results have implications for the selection and training of pilots.  
Keywords: Occupational Health And Safety  
Keywords: Risk Abstracts; Health & Safety Science Abstracts  
Keywords: H 1000:Occupational Safety and Health  
Keywords: R2 23110:Psychological aspects English. Date revised - 2011-10-01. Last updated - 2011-12-08. DOI - OB-53a87114-83c9-4410-8db4csaobj202; 13667972; 0925-7535

193. Du, Dan; Wang, Minghui; Cai, Jie; Qin, Yuehua; Zhang, Aidong, and Du, Dan. One-Step Synthesis of Multiwalled Carbon Nanotubes-Gold Nanocomposites for Fabricating Amperometric Acetylcholinesterase Biosensor. 2010 Jan 7; 143 , (2): 524-529.   
Rec #: 4380  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A facile, one-step synthesis of nanocomposites using multiwalled carbon nanotube coating gold nanoparticles (MWCNTs-Au) was presented. Scanning electron microscopy and UV-vis spectroscopy confirmed that more than 97% of gold nanoparticles have been loaded on the surface of carbon nanotubes without congregation. The formed MWCNTs-Au nanocomposites offered an extremely hydrophilic surface for biomolecule adhesion, leading to a stable acetylcholinesterase (AChE) biosensor. Due to the excellent conductivity of the nanocomposites, the immobilized AChE showed favorable affinity to acetylthiocholine (ATCl) and could catalyze the hydrolysis of ATCl with a K m app value of 268I14M to form thiocholine, which was then oxidized to produce a detectable and fast response. Based on the inhibition of organophosphates (OPs) on the enzymatic activity of AChE, the magnitude of peak current from thiocholine on the biosensor is a simple and effective way to biomonitoring of OPs exposure. Using malathion as a model compound, the inhibition of malathion was proportional to its concentration ranging from 1.0 to 1000ngmLa1 and from 2 to 15I14gmLa1, with a detection limit 0.6ngmLa1. The developed biosensor exhibited good reproducibility and acceptable stability, thus providing a new promising tool for analysis of enzyme inhibitors.  
Keywords: Scanning electron microscopy  
Keywords: Acetylcholinesterase  
Keywords: organophosphates  
Keywords: Spectroscopy  
Keywords: Hydrolysis  
Keywords: Malathion  
Keywords: Models  
Keywords: Biosensors  
Keywords: Carbon  
Keywords: Biotechnology and Bioengineering Abstracts  
Keywords: Nanocomposites  
Keywords: W 30955:Biosensors  
Keywords: biomonitoring  
Keywords: Gold  
Keywords: Enzymatic activity  
Keywords: nanoparticles  
Keywords: Coatings English. Date revised - 2010-10-01. Last updated - 2013-05-31. DOI - 93070b8f-39eb-4c63-acafcsaobj202; 13010537; 0925-4005. SubjectsTermNotLitGenreText - Scanning electron microscopy; Acetylcholinesterase; organophosphates; Spectroscopy; Hydrolysis; Malathion; Models; Biosensors; Carbon; Nanocomposites; Gold; biomonitoring; Enzymatic activity; nanoparticles; Coatings

194. Du, Dan; Ye, Xiaoxue; Cai, Jie; Liu, Juan, and Zhang, Aidong. Acetylcholinesterase biosensor design based on carbon nanotube-encapsulated polypyrrole and polyaniline copolymer for amperometric detection of organophosphates. 2010 Jul 15-; 25, (11): 2503-2508.   
Rec #: 1460  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: A simple method to immobilize acetylcholinesterase (AChE) on polypyrrole (PPy) and polyaniline (PANI) copolymer doped with multi-walled carbon nanotubes (MWCNTs) was proposed. The synthesized PAn-PPy-MWCNTs copolymer presented a porous and homogeneous morphology which provided an ideal size to entrap enzyme molecules. Due to the biocompatible microenvironment provided by the copolymer network, the obtained composite was devised for AChE attachment, resulting in a stable AChE biosensor for screening of organophosphates (OPs) exposure. MWCNTs promoted electron-transfer reactions at a lower potential and catalyzed the electro-oxidation of thiocholine, thus increasing detection sensitivity. Based on the inhibition of OPs on the AChE activity, using malathion as a model compound, the inhibition of malathion was proportional to its concentration ranging from 0.01 to 0.5 ++g/mL and from 1 to 25 ++g/mL, with a detection limit of 1.0 ng/mL. The developed biosensor exhibited good reproducibility and acceptable stability, thus providing a new promising tool for analysis of enzyme inhibitors. Polypyrrole-polyaniline copolymer/ Carbon nanotubes/ Organophosphates/ Acetylcholinesterase/ Biosensor http://www.sciencedirect.com/science/article/pii/S0956566310001880

195. Duirk, Stephen E; Desetto, Lisa M; Davis, Gary M; Lindell, Cristal; Cornelison, Christopher T, and Duirk, Stephen E. Chloramination of Organophosphorus Pesticides Found in Drinking Water Sources. 2010 Feb; 44, (3): 761-768.   
Rec #: 7180  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The degradation of commonly detected organophosphorus (OP) pesticides, in drinking water sources, was investigated under simulated chloramination conditions. Due to monochloramine autodecomposition, it is difficult to observe the direct reaction of monochloramine with each OP pesticide. Therefore, a model was developed to examine the reaction of monochloramine (NH2Cl) and dichloramine (NHCl2) with chlorpyrifos (CP), diazinon (DZ), and malathion (MA). Monochloramine was found not to be very reactive with each OP pesticides, kNH2Cl,OP=11-21M super(-1)h super(-1). While, dichloramine (NHCl2) was found to be 2 orders of magnitude more reactive with each of the OP pesticides than monochloramine, kNHCl2,OP=2000-2900M super(-1)h super(-1), which is still three orders of magnitude less than the hypochlorous acid reaction rate coefficient with each OP pesticide. For each pesticide, the reactivity of the three chlorinated oxidants was then found to correlate with half-wave potentials (E1/2) of each oxidant. With reaction rate coefficients for the three chlorinated oxidations as well as neutral and alkaline hydrolysis rate coefficients for the pesticides, the model was used to determine the dominant reaction pathways as a function of pH. At pH 6.5, OP pesticide transformation was mostly due to the reaction of hypochlorous acid and dichloramine. Above pH 8, alkaline hydrolysis or the direct reaction with monochloramine was the primary degradation pathway responsible for the transformation of OP pesticides. This demonstrates the ability of models to be used as tools to elucidate degradation pathways and parameterize critical reaction parameters when used with select yet comprehensive data sets.  
Keywords: Pathways  
Keywords: Degradation  
Keywords: Transformations  
Keywords: Pesticides  
Keywords: Drinking water  
Keywords: Hydrolysis  
Keywords: pH  
Keywords: Coefficients  
Keywords: Environmental Engineering Abstracts (EN); CSA / ASCE Civil Engineering Abstracts (CE) English. Date revised - 2013-01-01. Number of references - 2. Last updated - 2013-01-07. DOI - d5d56f36-bd19-4fec-a3b8csaobj202; 12930523; 0043-1354. American Public Health Association; Greenberg, A E. Standard methods for the examination of water and wastewater. Standard methods for the examination of water and wastewater. (1985). Gray, ET.; Margerum, D.W.; & Huffman, R.P., 1978. Chloramine Equilibria and the Kinetics of Disproportionation in Aqueous Solution. Organometals and Organometalloids: Occurrence and Fate in the Environment (F.E. Brinkman and J. M. Bellama, editors). ACS Symposium Series 82, Washington.

196. Durand, R.; Bouvresse, S.; Andriantsoanirina, V.; Berdjane, Z.; Chosidow, O., and Izri, A. High Frequency of Mutations Associated With Head Lice Pyrethroid Resistance in Schoolchildren From Bobigny, France. 2011; 48, 73-75.   
Rec #: 12940  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Resistance of head lice to pyrethroids induces difficult therapeutic problems. Previous studies demonstrated that this resistance was present in a French urban area, but its prevalence needed to be more precisely evaluated in terms of genotyping lice collected from more infested children over a certain period of time. We monitored the presence of the head lice kdr-like haplotype of the voltage-gated sodium channel a-subunit gene in schoolchildren seen three times on a 6-wk period. The prevalence of pediculosis was 2.39% (n = 1551). Genotyped lice (n = 167) were homozygous resistant in all but one pupil. The high frequency of the mutant haplotype (0.93) advocated for the abandonment of pyrethroid insecticides in this area and for the consideration of other treatment options.  
Number of Volumes: 1  
ISI Document Delivery No.: 716YM <Go to ISI>://CCC:000287009400010

197. Ebrahimi, M.; Es'haghi, Z.; Samadi, F.; Bamoharram, F. F., and Hosseini, M. S. Rational design of heteropolyacid-based nanosorbent for hollow fiber solid phase microextraction of organophosphorus residues in hair samples. 2012; 1225, 37-44.   
Rec #: 12980  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A novel heteropolyacid-based supported ionic liquid (IL) mediated sol-gel hybrid organic-inorganic material is presented for effective use in hollow fiber solid phase microextraction (HF-SPME). We examined a Keggin-based IL that was evaluated in conjunction with sol-gel. This study shows that Keggin-based IL sol-gel generated porous morphology pro effective extraction media. The method was developed for the extraction of the organophosphortis pesticides (OPs); diazinon, fenitrothion and malathion from human hair samples. The OPs were subsequently analyzed with high performance liquid chromatography and photodiode array detection (HPLC-PDA). In the basic condition (pH 10-11), the gel growth process in the presence of IL was initiated. Afterward, this sol was injected into a polypropylene hollow fiber segment for in situ-gelation process. Parameters affecting the efficiency of HF-SPME were thoroughly investigated. Linearity was observed over a range of 0.02-50,000 mu g/g and 0.0001-25,000 ng/mL with detection limits between 0.0074-1.3000 mu g/g and 0.00034-0.84 ng/mL for the OPs in hair and aqueous matrices, respectively. The relative recoveries in the real samples, for OPs in the storekeeper hair ranged from 86 to 95.2%. (C) 2011 Elsevier B.V. All rights reserved.  
ISI Document Delivery No.: 899KI <Go to ISI>://CCC:000300814400005

198. Ebrahimi, M.; Es'haghi, Z.; Samadi, F., and Hosseini, M. S. Ionic liquid mediated sol-gel sorbents for hollow fiber solid-phase microextraction of pesticide residues in water and hair samples. 2011; 1218, 8313-8321.   
Rec #: 12990  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: An ionic liquid mediated sol-gel sorbents for hollow fiber solid-phase microextraction (HF-SPME) was developed for extraction of the pesticides: diazinon, fenitrothion, malathion, fenvalerate, phosalone and tridemorph from human hair and water samples. The analytes were subsequently analyzed with high performance liquid chromatography and diode array detection (HPLC-DAD). Preliminary experiments were carried out in order to study experimental conditions for pesticides' extraction from spiked hair and water samples with HF-SPME using hollow fiber-supported ionic liquid mediated sol-gel sorbent. The sol-gel nanocomposites were reinforced with nanoparticles such as carboxylic functionalized multi-walled carbon nanotubes (COOH-MWCNTs), amino functionalized multi-walled carbon nanotubes (NH(2)-MWCNTs), nano SiO(2), nano TiO(2) and nano MgO comparatively to promote extraction efficiency. In this device, the innovative solid sorbents were developed by the sal-gel method via the reaction of tetraethylorthosilicate (TEOS) with 2-amino-2-hydroxymethyl-propane-1,3-dial (IRIS). In the basic condition (pH 10-11), the gel growth process in the presence of ionic liquid and nanoparticles was initiated. Then, the sal was injected into a polypropylene hollow fiber segment for in situ gelation process. Parameters affecting the efficiency of HF-SPME were thoroughly investigated. Linearity was observed over a range of 0.01-25,000 ng/mL with detection limits between 0.004 and 0.095 ng/mL for the pesticides in the aqueous matrices and 0.003-0.080 ng/mL in the hair matrices. The relative recoveries in the real samples ranged from 82.0% to 94.0% for the pesticides store seller's hair and the work researchers' hair. Results are showing the great possibilities of HF-SPME-HPLC-PDA for analysis of pesticides in biological and environmental samples. (C) 2011 Elsevier B.V. All rights reserved.  
Number of Volumes: 46  
ISI Document Delivery No.: 848FN <Go to ISI>://CCC:000297036000003

199. Eckhardt, D. A. V.; Reddy, J. E., and Shaw, S. B. Groundwater Quality in Central New York, 2007. 2009: 48 p.   
Rec #: 1760  
Keywords: FATE  
Call Number: NO FATE (12DPA,24D,24DXY,3HCF,ACR,ACRESA,ADC,AMSV,ATZ,AZ,Ag,As,BMC,BMY,BT,BTY,CBF,CBL,CPMR,CPY,CRM,Conazoles,Cr,Cr element,Cu,DCB,DCPA,DEAL,DFPA,DMB,DPDP,DPP1,DS,DU,DZ,EP,EPTC,ETHB,FPN,FTS,HACR,IMC,LNR,MCB,MCPB,MLN,MLT,MLX,MOM,MP,MTL,MTS,NFZ,NH3,NNCT,OML,OYZ,PCZ,PDM,PPCP,PPCP2011,PPG,PPN,PPX,PRO,PRT,PZM,SID,SMU,SZ,TBC,TBO,TET,TFN,TPR,Zn,Zn element)  
Notes: Chemical of Concern: 12DPA,24D,24DB,24DXY,3CE,3HCF,4CE,ACF,ACO,ACR,ACRESA,ADC,AMSV,ATZ,AZ,Ag,Al,As,BDC,BFL,BMC,BMN,BMY,BNZ,BORON,BSFM,BT,BTY,CBF,CBL,CF,CPMR,CPR,CPY,CRM,CTC,CYC,CZE,Conazoles,Cr,Cr element,Cu,DCB,DCPA,DDE,DEAL,DFPA,DLD,DMB,DMM,DPDP,DPP1,DS,DU,DZ,EFL,EP,EPRN,EPTC,ETHB,FFC,FMU,FNF,FPN,FTS,HACR,HCCH,IMC,IMQ,IZT,LNR,MBZ,MCB,MCPA,MCPB,MLN,MLT,MLX,MOM,MP,MTB,MTL,MTS,NFZ,NH3,NO3,NPP,NSF,OML,OYZ,PCH,PCL,PCZ,PDM,PEB,PL,PPCP,PPCP2011,PPG,PPN,PPX,PRN,PRO,PRT,PZM,SID,SMU,SZ,TBC,TBO,TET,TFN,TOL,TPR,TRB,TRL,VYL,Zn,Zn element

200. Edwards, F. L.; Yedjou, C. G., and Tchounwou, P. B. Involvement of oxidative stress in methyl parathion and parathion-induced toxicity and genotoxicity to human liver carcinoma (HepG2) cells. 2013; 28, 342-348.   
Rec #: 13000  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Methyl parathion (C8H10NO5PS) and parathion (C10H14NO5PS) are both organophosphate insecticides (OPI) widely used for household and agricultural applications. They are known for their ability to irreversibly inhibit acetylcholinesterase which often leads to a profound effect on the nervous system of exposed organisms. Many recently published studies have indicated that human exposure to OPI may be associated with neurologic, hematopoietic, cardiovascular, and reproductive adverse effects. Studies have also linked OPI exposure to a number of degenerative diseases including Parkinson's, Alzheimer's, and amyotrophic lateral sclerosis. Also, oxidative stress (OS) has been reported as a possible mechanism of OPI toxicity in humans. Hence, the aim of the present investigation was to use human liver carcinoma (HepG2) cells as a test model to evaluate the role of OS in methyl parathion- and parathion-induced toxicity. To achieve this goal, we performed the MTT [3-(4, 5-dimethylthiazol-2-yl)-2, 5-diphenyltetrazolium bromide] assay for cell viability, lipid peroxidation assay for malondialdehyde (MDA) production, and Comet assay for DNA damage, respectively. Results from MTT assay indicated that methyl parathion and parathion gradually reduce the viability of HepG2 cells in a dose-dependent manner, showing 48 h-LD50 values of 26.20 mM and 23.58 mM, respectively. Lipid peroxidation assay resulted in a significant increase (P < 0.05) of MDA level in methyl parathion- and parathion-treated HepG2 cells compared with controls, suggesting that OS plays a key role in OPI-induced toxicity. Comet assay indicated a significant increase in genotoxicity at higher concentrations of OPI exposure. Overall, we found that methyl-parathion is slightly less toxic than parathion to HepG2 cells. The cytotoxic effect of these OPI was found to be associated, at least in part, with oxidative cell/tissue damage. (c) 2011 Wiley Periodicals, Inc. Environ Toxicol, 2013.  
Number of Volumes: 6  
ISI Document Delivery No.: 139ZL <Go to ISI>://CCC:000318623700006

201. Eichelberger, J. W. and Lichtenberg, J. J. Persistence of Pesticides in River Water. 1971; 5, (6): 541-544.   
Rec #: 1220  
Keywords: FATE  
Call Number: NO FATE (CBL,DMT,ES,MCB,MLN,MPO,PPX)  
Notes: Chemical of Concern: CBL,DMT,ES,MCB,MLN,MPO,PPX

202. El Koraichi, A.; Ghannam, A.; Talha, M. Y.; Chmitah, O.; Al Haddoury, M., and El Kettani, S. E. [Acute Percutaneous Organophosphate Poisoning: About a Pediatric Case].   
Rec #: 8940  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: MESH HEADINGS: Administration, Cutaneous  
MESH HEADINGS: Antipyretics/administration &amp  
MESH HEADINGS: dosage  
MESH HEADINGS: Chenopodium ambrosioides  
MESH HEADINGS: Cholinesterase Inhibitors/\*poisoning  
MESH HEADINGS: Coma/\*chemically induced  
MESH HEADINGS: Female  
MESH HEADINGS: Humans  
MESH HEADINGS: Infant  
MESH HEADINGS: Insecticides/\*poisoning  
MESH HEADINGS: Malathion/\*poisoning  
MESH HEADINGS: Phytotherapy  
MESH HEADINGS: Respiratory Insufficiency/\*chemically induced fre. Intoxication aigu‰ transcutan‚e par organophosphor‚s: propos d'une observation p‚diatrique.

203. El-Sherif; Ahmed, M T; El-Danasoury, Ma; El-Nwishy, Nhk, and El-Sherif. Effects of Pollutants on Some Aquatic Organisms in Temsah Lake in Egypt. 2009 Jun; 4, (3): 150-160.   
Rec #: 7600  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Temsah lake is considered one of the wild life features in Egypt in general and in the Suez Canal region in particular. Through field experiment, concentrations of some pesticides which are used around the area, were **monitored in the tissues** of some birds of prey (wild birds), some species of algae, fish and crustaceans. The results obtained revealed: (1) The presence of some Organochlorines (OC) in the tissues of many of the tested birds represented in (DDE, Heptachlore, HCH, Dicofole). (2) The presence of high residues of Organophosphorus (OP) pesticides represented in malathion and diazinon in most of the tested birds. But they were not detected with high levels in any of fish, crustaceans or algae. (3) The presence of high concentrations of (OC) compounds in the tissues of algae, crab, mullet and some birds (moorhen-cormorant and gulls). Meanwhile, none of those compounds was detected in the water samples. (4) The presence of high levels of all detected pesticides in the tissues of crab makes it the very acceptable bioindicator to mirror the pollution of the lake, then followed by algae. (5) Pollutants can be transferred through the food chain which causes biomagnification of them in the bodies of the higher organisms in the food chain. It could be concluded that implementation of the environmental management practices in Lake Temsah is still needed to protect these ecosystems from more pollutions which could affect human health and environment.  
Keywords: Aquatic organisms  
Keywords: D 04070:Pollution  
Keywords: Food chains  
Keywords: Organochlorine compounds  
Keywords: Ecosystems  
Keywords: Water sampling  
Keywords: Environmental health  
Keywords: Freshwater  
Keywords: Microbiology Abstracts C: Algology, Mycology & Protozoology; Pollution Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; Ecology Abstracts  
Keywords: Toxicity tests  
Keywords: Malathion  
Keywords: Public health  
Keywords: Lakes  
Keywords: Insecticides  
Keywords: Pollutants  
Keywords: Egypt, Arab Rep., Suez Canal  
Keywords: Pollution  
Keywords: Algae  
Keywords: Freshwater pollution  
Keywords: Bioindicators  
Keywords: Pollution detection  
Keywords: Decapoda  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Crustacea  
Keywords: DDE  
Keywords: K 03450:Ecology  
Keywords: Q5 01504:Effects on organisms  
Keywords: Birds of prey  
Keywords: Water pollution  
Keywords: Aves  
Keywords: Canals  
Keywords: Pesticides  
Keywords: hexachlorocyclohexane  
Keywords: Fish  
Keywords: Diazinon  
Keywords: Environment management  
Keywords: Indicator species English. Date revised - 2009-06-01. Last updated - 2012-03-29. DOI - MD-0009639981; 9313528; CS0935607; 1816-4927. SubjectsTermNotLitGenreText - Food chains; Pollution detection; DDE; Pesticides; Toxicity tests; Water pollution; Indicator species; Public health; Freshwater pollution; Aquatic organisms; Organochlorine compounds; Birds of prey; Malathion; Canals; Lakes; Pollutants; Diazinon; Pollution; Algae; Bioindicators; Ecosystems; Water sampling; Crustacea; Environmental health; Aves; Insecticides; hexachlorocyclohexane; Fish; Environment management; Decapoda; Egypt, Arab Rep., Suez Canal; Freshwater

204. Elwakeel, K. Z. and Yousif, A. M. Adsorption of malathion on thermally treated egg shell material. 2010; 61, 1035-1041.   
Rec #: 13010  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Thermally treated egg shell materials were prepared at different temperatures. The samples were investigated by means of FT-IR and thermogravimetric analysis (TGA) The adsorption. behaviour of malathion on egg shell and its thermally treated samples was studied using batch method and gave uptake capacities up to 0.964 mmol/g. Adsorption kinetics as well as the adsorption isotherms were discussed. Regeneration of the loaded adsorbent beads towards the successive cycles was also clarified The adsorption of malathion is maintained untill the third. cycle without a significant activity loss.  
Number of Volumes: 4  
ISI Document Delivery No.: 563XI <Go to ISI>://CCC:000275170400025

205. Elwan, Farid. Effective extraction and detection of some organophosphorus insecticides seized in Egypt: Abstracts of the 46th Congress of the European Societies of Toxicology. 2009 Sep 13-; 189, Supplement, (0): S219.   
Rec #: 1700  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Detection/ Desulphoration/ Degradation/ Organophosphorus insecticides http://www.sciencedirect.com/science/article/pii/S0378427409009692

206. Enayati, A. and Hemingway, J. Malaria Management: Past, Present, and Future. 2010; 55, 569-591.   
Rec #: 13020  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The prospect of malaria eradication has been raised recently by the Bill and Melinda Gates Foundation with support from the international community. There are significant lessons to be learned from the major successes and failures of the eradication campaign of the 1960s, but cessation of transmission in the malaria heartlands of Africa will depend on a vaccine and better drugs and insecticides. Insect control is an essential part of reducing transmission. To date, two operational scale interventions, indoor residual spraying and deployment of long-lasting insecticide-treated nets (LLINs), are effective at reducing transmission. Our ability to monitor and evaluate these interventions needs to be improved so that scarce resources can be sensibly deployed, and new interventions that reduce transmission in a cost-effective and efficient manner need to be developed. New interventions could include using transgenic mosquitoes, larviciding in urban areas, or utilizing cost-effective consumer products. Alongside this innovative development agenda, the potential negative impact of insecticide resistance, particularly on LLINs, for which only pyrethroids are available, needs to be monitored.  
ISI Document Delivery No.: 545DG <Go to ISI>://CCC:000273712100029

207. Ensminger, Michael P; Budd, Robert; Kelley, Kevin C, and Goh, Kean S. Pesticide Occurrence and Aquatic Benchmark Exceedances in Urban Surface Waters and Sediments in Three Urban Areas of California, Usa, 2008ă˘[Euro]"2011. 2013 May; 185, (5): 3697-710.   
Rec #: 5360  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Urban pesticide use has a direct impact on surface water quality. To determine the extent of pesticide contamination, the California Department of Pesticide Regulation initiated a multi-area urban monitoring program in 2008. Water and sediment samples were collected at sites unaffected by agricultural inputs in three areas: Sacramento (SAC), San Francisco Bay (SFB), and Orange County (OC). Samples were analyzed for up to 64 pesticides or degradates. Multiple detections were common; 50Ă‚ % of the water samples contained five or more pesticides. Statewide, the most frequently detected insecticides in water were bifenthrin, imidacloprid, fipronil, fipronil sulfone, fipronil desulfinyl, carbaryl, and malathion. Bifenthrin was the most common contaminant in sediment samples. Key differences by area: OC had more pesticides detected than SAC or SFB with higher concentrations of fipronil, whereas SAC had higher concentrations of bifenthrin. The most frequently detected herbicides were 2,4-D, triclopyr, dicamba, diuron, and pendimethalin. Key differences by area: OC and SFB had higher concentrations of triclopyr, whereas SAC had higher concentrations of 2,4-D and dicamba. Detection frequency, number of pesticides per sample, and pesticide concentration increased during rainstorm events. In water samples, all of the bifenthrin, malathion, fipronil, permethrin, and [lambda]-cyhalothrin detections, and most of the fipronil sulfone and cyfluthrin detections were above their lowest US EPA aquatic benchmark. Diuron was the only herbicide that was detected above its lowest benchmark. Based on the number of pesticides and exceedances of aquatic benchmarks or the high number of sediment toxicity units, pesticides are abundant in California surface waters.[PUBLICATION ABSTRACT]  
Keywords: Environmental Monitoring  
Keywords: Pesticides -- analysis  
Keywords: California  
Keywords: Geologic Sediments -- chemistry  
Keywords: Water Pollutants, Chemical -- analysis  
Keywords: Pesticides  
Keywords: Water Pollution, Chemical -- statistics & numerical data  
Keywords: Water Pollutants, Chemical  
Keywords: Rivers -- chemistry  
Keywords: Cities -- statistics & numerical data  
Keywords: Environmental Studies English. Copyright - Springer Science+Business Media Dordrecht 2013. Last updated - 2013-06-03. DOI - 2983582321; 76822742; 108264; EVMT; 22899460; SPVLEVMT1066118552821

208. Entry, James a; Sojka, Robert E, and Entry, James A. Matrix-Based Fertilizers Reduce Pesticide Leaching in Soil. 2012 Mar; 223, (3 ): 1295-1302.   
Rec #: 2790  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The presence of pesticides in groundwater has been documented in several large-scale studies and numerous small-scale investigations. Pesticide leaching through soil has been identified as a major cause for the occurrence of these chemicals in surface and groundwater. We developed matrix-based fertilizers (MBFs) that have been shown to reduce N and P leaching. We tested the efficacy of the ionic bonds in the MBFs to reduce 2,4-dichlorophenoxyacetic acid (2,4-D), metolachlor, thiophanate methyl, carbaryl, diazinon, and malathion leaching in soil columns. After 7 days 2,4-D, thiophanate methyl, carbaryl, and malathion did not leach in sufficient quantities to determine if the MBF fertilizers reduced leaching compared with the control and the slow-release fertilizer Polyon registered . The MBF fertilizers leached from five to 30 times less metolachlor than the control and Polyon registered treatment. Treatments with MBF fertilizers leached from two to 72 times less diazinon than the control treatment. The MBF fertilizer treatment leached from eight to 268 less diazinon than columns receiving Polyon registered . The MBF formulations allow compounds with both anionic and cationic charges to bind with the Al(SO sub(4)) sub(3) 3H sub(2)O and/or Fe sub(2)(SO sub(4)) sub(3) 3H sub(2)O-lignin-cellulose matrix. When pesticides are added to the soil amended with matrix-based fertilizers, the ion exchange matrix will likely bind the metolachlor and diazinon to the Al(SO sub(4)) sub(3) 3H sub(2)O and/or Fe sub(2)(SO sub(4)) sub(3) 3H sub(2)O-starch-cellulose-lignin matrix thereby substantially reducing leaching. The MBFs could be used to limit both nutrients and pesticide leaching from agricultural fields.  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: SW 3050:Ultimate disposal of wastes  
Keywords: Leaching  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Groundwater Pollution  
Keywords: Agrochemicals  
Keywords: Malathion  
Keywords: Soil  
Keywords: Fertilizers  
Keywords: Agricultural Chemicals  
Keywords: Ion Exchange  
Keywords: Pesticides  
Keywords: Environment Abstracts; Pollution Abstracts; Aqualine Abstracts; Water Resources Abstracts  
Keywords: 2,4-Dichlorophenoxyacetic acid  
Keywords: Groundwater  
Keywords: Diazinon  
Keywords: ENA 01:Air Pollution English. Date revised - 2012-03-01. Last updated - 2012-09-10. DOI - ee737da2-bdbd-4a24-98dbmfgefd101; 16383353; 0049-6979; 1573-2932. SubjectsTermNotLitGenreText - Soil; Fertilizers; Leaching; Pesticides; 2,4-Dichlorophenoxyacetic acid; Groundwater; Diazinon; Agrochemicals; Malathion; Agricultural Chemicals; Ion Exchange; Groundwater Pollution

209. ErdoÃ„Å¸rul, Ãƒâ zlem. Pesticide residues in liquid pekmez (grape molasses). 2008; 144, 323-328.   
Rec #: 10570  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this study 32 pesticide residues and eight polybrominated diphenlyl ether (PBDE) congeners were measured in seven liquid samples from KahramanmaraÃ…Å¸, Turkey. A new method based on the best recovery was column extraction with n-hexane/acetone followed by gas chromatography electron-capture detection (GC-ECD), and mass spectrometry (GC-MS). Limit of Detection (LOD) was 0.02 ng/g for PCBs and PBDEs and 0.05 ng/g for the others. ÃŽÂ±-HCH, ÃŽÂ³-HCH, HCB, and Heptachlor were being measured in all LP samples. The sum of HCHs, DDTs and PCBs in samples was 1.56, 0.76 and 5.42 ng/g, respectively. p,p'-DDD, p,p'-DDT, o,p'-DDT, cis-nonachlor, ÃŽÂ²-endosulfan, endrin, PCB 118, PCB 138, PCB 180 and PBDEs were not detected. The mean values of ÃŽÂ±-HCH, ÃŽÂ²-HCH, ÃŽÂ³-HCH, HCB were 0.72, 2.03, 1.92, 3.58 and ÃŽÂ±-chlordan, trans-nonachlor, heptachlor, malathion, aldrin, bromophos methyl, bromophos ethyl, cis-HCE, trans-HCE, chlordan, ÃŽÂ±-endosulfan, dieldrin were 2.44, 0.27, 1.25, 1.27, 0.91, 0.10, 0.50, 0.26, 0.63, 2.44, 0.30, 0.30 ng/g respectively. The mean values of p,p'-DDE, o,p'-DDE, o,p'-DDD were 0.26, 0.48, 0.68 and PCB 28, PCB 52, PCB 101, PCB 153 were 2.35, 35.27, 0.16, 0.18 ng/g, respectively.  
Keywords: Liquid pekmez  
Number of Volumes: 1-3  
Dordrecht : Springer Netherlands http://dx.doi.org/10.1007/s10661-007-9995-5

210. ErgăĽN, Selma Să Nmez; OztăĽRk, Kahraman; Su, Ozlem; GăĽRsoy, Esra Baĺ˙Ar; Uä˙Urad, Iĺ˙Il, and YăĽKsel, Gă Kĺ˙En. Delayed Neuropathy Due to Organophosphate Insecticide Injection in an Attempt to Commit Suicide. 2009 Mar; 4, (1): 84-87.   
Rec #: 7730  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organophosphates (OPs) are commonly used as pesticides throughout the world. Exposures to OPs cause a significant number of poisonings and deaths every year. Organophosphate-induced delayed polyneuropathy is a sensory-motor distal axonopathy which usually occurs after exposure of certain OP insecticides. Neuropathies due to ingestion of OPs have rarely been reported in the literature. Moreover, until now, there is no report of a patient developing organophosphorus injection-induced delayed neuropathy in the literature. We report a patient with serious organophosphorus-induced delayed neuropathy due to malathion injection. The patient was a 32-year-old female who self-injected undetermined amounts of malathion over the median nerve trace on the forearm crease in a suicide attempt which resulted in peripheral neuropathy. eng. Date completed - 2010-06-28. Date created - 2009-03-13. Date revised - 2012-12-20. SuppNotes - Cites: Brain Res. 1989 Sep 4;496(1-2):228-40[2804632]; Cites: Biochem Pharmacol. 1984 Oct 15;33(20):3213-7[6487368]; Cites: Can J Neurol Sci. 1980 May;7(2):143-51[7407720]; Cites: Arq Neuropsiquiatr. 2002 Dec;60(4):1003-7[12563396]; Cites: Arh Hig Rada Toksikol. 2007 Sep;58(3):355-8[18050888]; Cites: Toxicol Lett. 2006 Mar 15;162(1):94-7[16309859]; Cites: Plast Reconstr Surg. 1982 Mar;69(3):482-90[7063571]; Cites: Orthop Clin North Am. 1981 Apr;12(2):239-44[7243237]; Cites: Skin Pharmacol Appl Skin Physiol. 2002 May-Jun;15(3):195-9[12077472]; Cites: Toxicol Rev. 2005;24(1):37-49[16042503]; Cites: Hand Clin. 1988 May;4(2):317-22[3294251]. Last updated - 2013-01-19. DOI - MEDL-18780003; 18780003; 1558-9447

211. Escuder-Gilabert, L.; Martin-Biosca, Y.; Sagrado, S.; Villanueva-Camanas, R. M., and Medina-Hernandez, M. J. Biopartitioning Micellar Chromatography to Predict Ecotoxicity. Departamento de Quimica Analitica, Universitat de Valencia, C/Vicente Andres Estelles s/n, E-46100 Burjassot, Valencia, Spain//: 2001; 448, (1/2): 173-185.   
Rec #: 990  
Keywords: MODELING,REFS CHECKED  
Call Number: NO MODELING (24D,24DP,24DXY,ANT,BMY,BPH,CBD,CBL,CPY,DCF,DCNA,DMB,DMT,DPP1,DU,DZ,HFR,HTX,MDT,MLN,MLX,PAHs,PCP,PPG,TPR), NO REFS CHECKED (24D,24DP,24DXY,ANT,BMY,BPH,CBD,CBL,CPY,DCF,DCNA,DMB,DMT,DPP1,DU,DZ,HFR,HTX,MDT,MLN,MLX,PAHs,PCP,PPG,TPR)  
Notes: Chemical of Concern: 24D,24DC,24DP,24DXY,2CP,4NP,ANT,BMY,BNZ,BPH,BPZ,CBD,CBL,CPY,Conazoles,DCF,DCNA,DMB,DMT,DPP1,DU,DZ,FMU,FNTH,HFR,HTX,ILL,MDT,MLN,MLX,PAHs,PCP,PIM,PL,PPG,TBA,TPR

212. Eto, M. Functions of Phosphorus Moiety in Agrochemical Molecules. 1997; 61, (1): 1-11.   
Rec #: 1570  
Keywords: CHEM METHODS  
Call Number: NO CHEM METHODS (ACP,DDVP,DZ,FNT,FOSNH,FST,GFS,GYP,MLN,PFF,TCF)  
Notes: Chemical of Concern: ACP,DDVP,DZ,FNF,FNT,FOSNH,FST,GFS,GYP,MLN,PFF,TCF

213. Fabacher, D. L. Hepatic Microsomes from Freshwater Fish - I. In Vitro Cytochrome P-450 Chemical Interactions. 1982; 73, 277-283.   
Rec #: 540  
Keywords: IN VITRO  
Call Number: NO IN VITRO (24D,24DXY,AZ,CPY,ES,MLN,MP,PAQT,PCP,PPB,RTN,SZ,TVP)  
Notes: Chemical of Concern: 24D,24DXY,AND,AZ,BAP,CHO,CPY,CdCl,DDT,DLD,EN,ES,HPT,MLN,MP,MRX,MXC,NS,NaCO,NaLS,OLEA,PAQT,PCL,PCP,PPB,RTN,SZ,TVP,TXP

214. Fabro, L. and Varca, L. M. Pesticide usage by farmers in Pagsanjan-Lumban catchment of Laguna de Bay, Philippines. 2012; 106, 27-34.   
Rec #: 13060  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pesticides have been of great benefit to agriculture in the Philippines by decreasing crop losses clue to insects, weeds, plant diseases, rodents, and other pests. However, they may build-up in the food chain and can cause contamination of the environment. We examined farmers' pesticide usage in southern sub-catchments of Laguna de Bay, which is a crucial water resource subject to intensive investigations to identify types and sources of pollution. Before the monitoring of pesticides in surface waters was commenced it was necessary to conduct a survey of the pesticides being used by the growers in the catchment in order to select the pesticides that should be monitored. Our survey found that nearly all growers in Lucban and Laguna, irrespective of crop grown, used the pyrethroid-based insecticides L-cyhalothrin and cypermethrin. In rice, pesticides were applied one to three times per season, while in vegetables, L-cyhalothrin and cypermethrin insecticides were applied five times and the other insecticides were applied two to four times throughout the cropping season. In Laguna other insecticides used were carbofuran, endosulfan and a formulated product of BPMC (fenobucarb) and chlorpyrifos. In Lucban other insecticides used were malathion, profenofos, chlorpyrifos, carharyl, niclosamide and metaldehyde. Butachlor and 2,4-D herbicides were used to control weeds and were applied once throughout the growing. Some fungicides were also applied. An estimation of the potential loads of chemicals moving into waterways has shown that L-cyhalothrin, pretilachlor, niclosamide, butalchlor, carbofuran and profenofos are most likely to be present in waterways in the Lucban and Pagsanjan regions in the largest quantities based on the quantities applied and/or use in a number of crops. (C) 2011 Published by Elsevier B.V.  
ISI Document Delivery No.: 929PO <Go to ISI>://CCC:000303078100005

215. Fadaei, Abdolmajid; Dehghani, Mohammad Hadi; Nasseri, Simin; Mahvi, Amir Hossein; Rastkari, Noushin, and Shayeghi, Mansoreh. Organophosphorous Pesticides in Surface Water of Iran. 2012 Jun; 88, ( 6): 867-9.   
Rec #: 2630  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This research aims to evaluate the presence and distribution of pesticides in Babolrood River of Mazandaran Province in Iran. Mean diazinon levels in surface water ranged from 77.6 to 101.6 ÎĽg L^sup -1^ with maximum level of 768.9 ÎĽg L^sup -1^ and mean malathion levels ranged from 55.7 to 75.9 ÎĽg L^sup -1^ with maximum level of 506.6 ÎĽg L^sup -1^. The residues of malathion and diazinon pesticides in all of the stations, 2 weeks after spraying, were more than allowed limits.[PUBLICATION ABSTRACT]  
Keywords: Pesticides -- analysis  
Keywords: Rivers  
Keywords: Organophosphorus Compounds -- analysis  
Keywords: Iran  
Keywords: Water Pollutants, Chemical -- analysis  
Keywords: Surface water  
Keywords: Toxicity  
Keywords: Diazinon -- analysis  
Keywords: Malathion  
Keywords: Water pollution  
Keywords: Environmental Studies  
Keywords: Environmental Monitoring  
Keywords: Organophosphorus Compounds  
Keywords: Malathion -- analysis  
Keywords: Pesticides  
Keywords: Water Pollution, Chemical -- statistics & numerical data  
Keywords: Water Pollutants, Chemical  
Keywords: Rivers -- chemistry  
Keywords: Diazinon English. Copyright - Springer Science+Business Media, LLC 2012. Document feature - References. Last updated - 2013-02-24. DOI - 2646282121; 68847212; 108019; BVCX; 22349309; SPVLBVCX128886568. SubjectsTermNotLitGenreText - Iran. Abdel-Halim, K.Y.; Salama, A.K.; El-khateeb, E.N.; Bakry, N.M. Organophosphorus pollutants (OPP) in aquatic environment at Damietta Governorate, Egypt: Implications for monitoring and biomarker responses. Chemosphere, 63. 9 (2006): 1491-1498. Elsevier Ltd. American Public Health Association; Greenberg, A E. Standard methods for the examination of water and wastewater. Standard methods for the examination of water and wastewater. (1985). Ballesteros, E.; Parrado, M.J. Continuous solid-phase extraction and gas chromatographic determination of organophosphorus pesticides in natural and drinking waters. Journal of Chromatography A, 1029. 1-2 (2004): 267-273. Elsevier. Blomquist, Joel D; Denis, Janet M; Hetrick, James A; Jones, R David; et al. Pesticides in selected water-supply reservoirs and finished drinking water, 1999-2000; summary of results from a pilot monitoring program. Open-File Report - U. S. Geological Survey (2001): 65. U. S. Geological Survey. Castilho, JAA; Fenzl, N; Guillen, S M; Nascimento, F S. Organochlorine and organophosphorus pesticide residues in the Atoya river basin, Chinandega, Nicaragua. ENVIRONMENTAL POLLUTION, 110. 3 (2000): 523-533. ELSEVIER SCI LTD. Eichelberger, J W; Lichtenberg, J J. PERSISTENCE OF PESTICIDES IN RIVER WATER. Environmental Science and Technology, 5. 6 (1971): 541-544. Farajzadeh, Mir Ali; Seyedi, Seyed Esmaeil; Shalamzari, Mohammad Safi; Bamorowat, Mehdi. Dispersive liquid-liquid microextraction using extraction solvent lighter than water. JOURNAL OF SEPARATION SCIENCE, 32. 18 (2009): 3191-3200. WILEY-V C H VERLAG GMBH. GILLIOM, Robert J. PESTICIDES in U.S. streams and groundwater. Environmental science & technology, 41. 10 (2007): 3408-3414. American Chemical Society. Hela, Dimitra G.; Lambropoulou, Dimitra A.; Konstantinou, Ioannis K.; Albanis, Triantafyllos A. Environmental monitoring and ecological risk assessment for pesticide contamination and effects in Lake Pamvotis, northwestern Greece. Environmental Toxicology and Chemistry, 24. 6 (2005): 1548-1556. SETAC Press. HOFFMAN, R. S.; CAPEL, P. D.; LARSON, S. J. Comparison of pesticides in eight U.S. urban streams. Environmental toxicology and chemistry, 19. 9 (2000): 2249-2258. SETAC. Howard, PH; Howard, PH. Handbook of Environmental Fate and Exposure of Organic Chemicals. Volume I. Large Production and Priority Pollutants. (1989): LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MI 48118 (USA). Na, Ta; Fang, Zhou; Zhanqi, Gao; Ming, Zhong; et al. The status of pesticide residues in the drinking water sources in Meiliangwan Bay, Taihu Lake of China. ENVIRONMENTAL MONITORING AND ASSESSMENT, 123. 1-3 (2006): 351-370. SPRINGER. Newhart K (2006) Environmental fate of malathion. California Environmental Protection Agency, Department of Pesticide Regulation, Environmental Monitoring Branch, Sacramento. Pandey GN, Carney GC (1992) Environmental engineering. Tata McGraw Hill Publishing Company Limited, New Delhi. PEDERSEN, Joel A.; YEAGER, Matt A.; SUFFET, I. H. Organophosphorus insecticides in agricultural and residential runoff : Field observations and implications for total maximum daily load development. Environmental science & technology, 40. 7 (2006): 2120-2127. American Chemical Society. Real, Francisco J.; Benitez, F. Javier; Acero, Juan L.; Gonzalez, Manuel. Removal of diazinon by various advanced oxidation processes. Journal of Chemical Technology and Biotechnology, 82. 6 (2007): 566-574. John Wiley and Sons Ltd. Shayeghi, M., S.J. Shahtaheri and M. Selsele, 2001. Phosphorous insecticides residues in Mazandaran River Waters, Iran. Iran. J. Public. Health, 30: 115-118. Sun, Q.; Zhu, L.; Dong, M. Risk assessment of organic pesticides pollution in surface water of Hangzhou. ENVIRONMENTAL MONITORING AND ASSESSMENT, 117. 1-3 (2006): 377-385. SPRINGER. Tsuda, T.; Nakamura, T.; Inoue, A.; Tanaka, K. Pesticides in Water and Sediment from Littoral Area of Lake Biwa. BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, 82. 6 (2009): 683-689. SPRINGER. Wilson, P. Chris; Foos, Jane Ferguson. Survey of carbamate and organophosphorous pesticide export from a South Florida (USA) agricultural watershed: Implications of sampling frequency on ecological risk estimation. Environmental Toxicology and Chemistry, 25. 11 (2006): 2847-2852. SETAC Press. Zhang, Yanming; Pagilla, Krishna. Treatment of malathion pesticide wastewater with nanofiltration and photo-Fenton oxidation. Desalination, 263. 1-3 (2010): 36-44. Elsevier

216. Falcon, L. A. Biological Factors that Affect the Success of Microbial Insecticides: Development of Integrated Control. 1973; 217, 173-186.   
Rec #: 1470  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (CBL,DCTP,MLN), NO REVIEW (CBL,DCTP,MLN)  
Notes: Chemical of Concern: CBL,DCTP,DDT,MLN,TXP

217. Fallico, B.; D'Urso, M. G., and Chiappara, E. Exposure to pesticides residues from consumption of Italian blood oranges. 2009; 26, 1024-1032.   
Rec #: 13090  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This paper reports the results of a 5-year study to evaluate pesticide levels, derived from orchard activities, on Italy's most common orange cultivar (Citrus sinensis, L. Osbeck, cv. Tarocco). Using a Bayesian approach, the study allowed both the qualitative (number) and quantitative distributions (amount) of pesticides to be determined with its own probability value. Multi-residue analyses of 460 samples highlighted the presence of ethyl and methyl chlorpyrifos, dicofol, etofenprox, fenazaquin, fenitrothion, imazalil, malathion and metalaxil-m. A total of 30.5% of samples contained just one pesticide, 2.16% two pesticides and 0.65% of samples had three pesticides present simultaneously. The most common residue was ethyl chlorpyrifos followed by methyl chlorpyrifos. Estimated daily intake (EDI) values for ethyl and methyl chlorpyrifos, as well as the distance from the safety level (non-observed adverse effect level, NOAEL), were calculated. The risk was differentiated (1) to take account of the period of actual citrus consumption (180 days) and (2) to discriminate the risk derived from eating oranges containing a certain level of chlorpyrifos from unspecified pesticides. The most likely EDI values for ethyl chlorpyrifos derived from Italian blood orange consumption are 0.01 and 0.006 mg/day calculated for 180 and 365 days, respectively. Considering the probability of the occurrence of ethyl chlorpyrifos, these EDI values are reduced to 2.6 x 10(-3) and 1.3 x 10(-3) mg/day, respectively. For methyl chlorpyrifos, the most likely EDI values are 0.09 and 0.04 mg/day, respectively; considering the probability of its occurrence, the EDI values decrease to 6.7 x 10(-3) and 3.4 x 10(-3) mg/day, respectively. The results confirmed that levels of pesticides in Italian Tarocco oranges derived from a known controlled chain of production are safe.  
Number of Volumes: 7  
ISI Document Delivery No.: 457ZW <Go to ISI>://CCC:000266979700008

218. Fan, Siqi and Zhang, Minghua. Pesticides Used on Walnuts in California: Use Patterns and Potential Impacts on Surface Water. 2012.  
Rec #: 7960  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Walnuts are an important specialty crop in California. In 2010, they reached a production of 503,000 tons which accounted for 99% of national production, and created profits over one billion dollars statewide. The major regions growing walnuts in California include the Sacramento Basin, San Joaquin Basin and Tulare Lake Basin. To maximize crop production, a large amount of pesticides was applied to control pests: The amount of active ingredient (AI) used in pesticide products exceeded 1000 tons annually in 1995-2009, which could have posed potential pollution to surface water. This study looked into both pesticide use and its potential impact on surface water from 1995 to 2009 on California walnuts, focusing on the pesticide categories of fungicides, insecticides and herbicides. A pesticide risk evaluation model, Pesticide Use Risk Evaluation (PURE), was applied in this study to quantitatively analyze potential impact of pesticide use on surface water. Results showed that among the three main basins, the Sacramento Basin had the highest fungicide risk intensity on surface water (annual average value: 978.25 R/ha, 42% and 358% higher than San Joaquin and Tulare Lake), due to a heavy use of copper hydroxide and maneb. San Joaquin had the highest insecticide risk intensity (973.73 R/ha, 33% and 56% higher than the Sacramento Basin and Tulare Lake) resulting mainly from chlorpyrifos, azinphos-methyl, chloropicrin, and malathion use. Herbicide showed a consistent low risk intensity (<50 R/ha) in all basins. The Mann-Kendall test showed fungicide and insecticide risk intensity presented a consistently decreasing trend in all basins, while herbicide risk intensity presented an increasing trend in Tulare Lake. A finer spatial scale analysis was conducted at township level (6Ă—6 mile 2 ) to assess the use and risk patterns in more details, the results of which are presented as GIS maps. Finally, based on some lab experiments observing pyrethroid use can cause mite outbreaks, a case study was carried out to examine the relationship between pyrethroid and miticide use on California walnuts and their potential impact on surface water. A developed model captured the relationship as the miticide use intensity is positively correlated with pyrethroid use intensity until it reaches a maximum value. Through a comprehensive pesticide use and risk analysis on California walnut, important conclusions are made. For example, pesticides such as copper hydroxide and chlorpyrifos have high toxicity in surface water. Our analysis indicates that if they were replaced by more environmentally benign pesticides - such as kaolin and petroleum oil - the overall risk scores and environmental impacts would decrease. These results can be useful to help local walnut growers make decisions on pesticide choices, and help regulators to make suggestions and integrated pesticide management on critical regions.  
Start Page: 124  
ISSN/ISBN: 9781267758798  
Keywords: Agriculture  
Keywords: Pesticide  
Keywords: California walnut  
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Keywords: Surface water  
Keywords: 0595:Water Resource Management  
Keywords: Gis  
Keywords: Ipm  
Keywords: 0473:Agriculture  
Keywords: Water Resource Management  
Keywords: Biological sciences  
Keywords: Earth sciences  
Keywords: Pesticide risk model  
Keywords: Hydrologic sciences English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2012. Last updated - 2013-05-07. DOI - 2828805621; 70145852; 66569; 9781267758798; 1529960. First page - n/a

219. Farghaly, M. and El-Maghraby, S. Investigation of chronic toxicity of (14)C-fenitrothion and its degradation products on stored soybeans. 2009; 27, 1-6.   
Rec #: 13110  
Keywords: FOOD  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Grains of soybeans were treated with the recommended dose of fenitrothion insecticide, 5 mg/kg, and double that dose, before storage for 30 weeks under ambient local conditions. During the storage period. the penetration and distribution of insecticide residues were studied. The amount of surface residues on stored soybeans, internal extractable and bound residues were determined. Surface residues were found to decrease with the increase in time of storage, whereas internal residues showed a gradual increase with time to reach 56%, 54% of applied doses after 30 weeks. The amount of bound residues inside the matrix showed a slow increase with time. Toxicity of the total internal residues of fenitrothion in stored soybeans was studied in mice through a sub-chronic feeding experiment for 3 months. The maximum inhibition in plasma and erythrocyte cholinesterase activity was 37% and 13% after the first month, respectively. Treated mice suffered from deterioration of hepatic and renal functions as indicated by the increase level of blood serum esterase's and blood urea nitrogen. Percentage increase in alanine aminotransferase (ALT) and aspartate aminotransferase (AST) was reached to about 62% and 55%, respectively as compared with control animals with the end of feeding period. (C) 2008 Elsevier B.V. All rights reserved.  
Number of Volumes: 1  
ISI Document Delivery No.: 396AM <Go to ISI>://CCC:000262564600001

220. Farnebo, S.; Zettersten, E. K.; Samuelsson, A.; Tesselaar, E., and Sjoberg, F. Assessment of Blood Flow Changes in Human Skin by Microdialysis Urea Clearance. 2011; 18, 198-204.   
Rec #: 13120  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: P>Objective: The aim of this study was to evaluate the urea clearance technique for the measurement of drug-induced blood flow changes in human skin and compare it to two non-invasive techniques: polarization light spectroscopy and laser Doppler perfusion imaging. Methods: Fifteen microdialysis catheters were placed intracutaneously on the volar aspect of the forearms of healthy human subjects and were perfused with nitroglycerine, noradrenaline, and again nitroglycerine to induce local tissue hyperemia, hypoperfusion, and hyperemia, respectively. Results: Urea clearance, but not the other techniques, detected the changes in blood flow during changes in flow. The last hyperemic response was detected by all three methods. Conclusion: Urea clearance can be used as a relatively simple method to estimate blood flow changes during microdialysis of vasoactive substances, in particular when the tissue is preconditioned in order to enhance the contrast between baseline and the responses to the provocations. Our results support that, in the model described, urea clearance was superior to the optical methods as it detected both the increases and decrease in blood flow, and the returns to baseline between these periods.  
Number of Volumes: 3  
ISI Document Delivery No.: 739ZD <Go to ISI>://CCC:000288759900004

221. Fathi, Farkhondeh; Lagugnă©-Labarthet, Frană Ois; Pedersen, David B, and Kraatz, Heinz-Bernhard. Studies of the Interaction of Two Organophosphonates With Nanostructured Silver Surfaces. 2012 Oct 7; 137 , (19): 4448-4453.   
Rec #: 5610  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Electrochemical cycling of silver surfaces in the presence of the organophosphonates paraoxon and malathion leads to changes in the electrochemical response of silver and the formation of silver nanostructures. Adsorption of the organophosphonates onto the silver surfaces causes a significant reduction in the observed current response due to an increase in the charge transfer resistance. Surface enhanced Raman spectroscopy (SERS) measurements indicate that paraoxon adsorbs with no structural changes, while malathion decomposes and a thiophosphonate interacts with the surface. The SERS study of these adsorbates was carried out by changing the electrochemical conditions and the concentration of the organophosphonates. The size of the nanostructures greatly influences the SERS signal and it is observed that the strongest enhancement is observed for mid-sized nanostructures with a uniform thickness on the surface. The limit of detection was shown to be in the range of 10 nM to 10 pM for paraoxon and malathion, respectively. eng. Date completed - 2013-01-17. Date created - 2012-08-29. Date revised - 2013-01-25. Last updated - 2013-01-25. DOI - MEDL-22866328; 22866328; 1364-5528

222. Faust, D. R.; Knowles, N.; Magruder, E.; Haukos, D. A.; Cobb, G. P.; Maul, J. D.; Anderson, T. A., and Smith, P. N. Inorganic and organic contaminants in sediments from an urban playa and associated toxicity among Hyalella azteca. 2012; 94, 1746-1757.   
Rec #: 13140  
Keywords: SEDIMENT CONC  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Playa wetlands are important components of the Southern High Plains (USA) landscape as they are the major aquatic surface feature. Chemical contaminants associated with playas have been documented, particularly for grassland and agricultural watersheds, but not for playas in urban settings. The objectives of this study were to determine concentrations of inorganic and organic contaminants in sediments from an urban playa within the I-20 Wildlife Preserve and Jenna Welch Nature Study Center in Midland, TX, and evaluate toxicity of these sediments to Hyalella azteca. Concentrations of most trace elements were below sediment quality guidelines with exceptions of lead, cadmium, and arsenic. Concentrations of organic contaminants, particularly PAHs, DDT, DDE, and malathion, were above sediment quality guidelines at various locations within the playa. Decreased survival was observed among H. azteca exposed to sediment from a single location when compared those exposed to reference sediments. This location also produced maximum observed concentrations for five of seven trace elements, potentially due to its location at the lowest elevation within the playa. This study documented concentrations of contaminants in sediments of an urban playa associated with past and present land uses in its urban setting, including those from automotive emissions and historical pesticide use.  
Number of Volumes: 9  
ISI Document Delivery No.: 026VP <Go to ISI>://CCC:000310311500011

223. Faust, S. D. and Gomaa, H. M. Chemical Hydrolysis of Some Organic Phosphorus and Carbamate Pesticides in Aquatic Environments. 1972; 3, (3): 171-201.   
Rec #: 550  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (AZ,DCTP,DDVP,DMT,DS,DZ,FNT,MLN,MP,MVP,OXD,PRT,TCF), NO REVIEW (AZ,DCTP,DDVP,DMT,DS,DZ,FNT,MLN,MP,MVP,OXD,PRT,TCF)  
Notes: Chemical of Concern: AZ,DCTP,DDVP,DMT,DS,DZ,EPRN,ETN,FNT,FNTH,MLN,MP,MVP,OXD,PPHD,PRN,PRT,TCF

224. Fedorenkova, A.; Vonk, J. A.; Lenders, H. J. R.; Creemers, R. C. M.; Breure, A. M., and Hendriks, A. J. Ranking Ecological Risks of Multiple Chemical Stressors on Amphibians. 2012; 31, (6): 1416-1421.   
Rec #: 1680  
Keywords: MODELING,REFS CHECKED  
Call Number: NO MODELING (ACR,ATZ,AZ,CBD,CBF,CBL,Cu,DM,DU,DZ,ES,MLN,MP,PMR), NO REFS CHECKED (ACR,ATZ,AZ,CBD,CBF,CBL,Cu,DM,DU,DZ,ES,MLN,MP,PMR)  
Notes: Chemical of Concern: ACR,ATZ,CBD,CBF,CBL,Cu,DDT,DLD,DM,DU,DZ,EN,EPRN,ES,HCCH,MLN,MP,NH4,NO3,PMR,PPCP,PRN

225. Fenoll, J.; Hellin, P.; Martinez, C. M.; Miguel, M., and Flores, P. Multiresidue Method for Analysis of Pesticides in Pepper and Tomato by Gas Chromatography with Nitrogen-Phosphorus Detection. Departamento de Calidad y Garantia Alimentaria, C/Mayor s/n,IMIDA, Murcia, Spain////: SOIL; 2007; 105, (2): 711-719.   
Rec #: 1200  
Keywords: NO DURATION  
Call Number: NO DURATION (AZX,CPY,CPYM,CYF,CYP,Conazoles,DM,DZ,GCYH,MLN,OXF,PDM,PIRM,PRB,PZM,TAUF,TDF)  
Notes: Chemical of Concern: AZX,BPZ,CPY,CPYM,CYD,CYF,CYP,CYPM,DF,DM,DZ,FDX,GCYH,KRSM,MLN,OXF,PDM,PHSL,PIM,PIRM,PRB,PYX,PZM,TAUF,TCM,TDF,TDM,TEZ,TYF

226. Fenoll, Jose; Ruiz, Encarnacion; Flores, Pilar; Hellin, Pilar; Navarro, Simon, and Fenoll, Jose. Reduction of the Movement and Persistence of Pesticides in Soil Through Common Agronomic Practices. 2011 Nov; 85, (8): 1375-1382.   
Rec #: 3050  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Laboratory and field studies were conducted in order to determine the leaching potential of eight pesticides commonly used during pepper cultivation by use of disturbed soil columns and field lysimeters, respectively. Two soils with different organic matter content (soils A and B) were used. Additionally, soil B was amended with compost (sheep manure). The tested compounds were cypermethrin, chlorpyrifos-methyl, bifenthrin, chlorpyrifos, cyfluthrin, endosulfan, malathion and tolclofos-methyl. In soil B (lower organic matter content), only endosulfan sulphate, malathion and tolclofos-methyl were found in leachates. For the soil A (higher organic matter content) and amended soil B, pesticide residues were not found in the leachates. In addition, this paper reports on the use of common agronomic practices (solarization and biosolarization) to enhance degradation of these pesticides from polluted soil A. The results showed that both solarization and biosolarization enhanced the degradation rates of endosulfan, bifenthrin and tolclofos-methyl compared with the control. Most of the studied pesticides showed similar behavior under solarization and biosolarization conditions. However, chlorpyrifos was degraded to a greater extent in the solarization than in biosolarization treatment. The results obtained point to the interest in the use of organic amendment in reducing the pollution of groundwater by pesticide drainage and in the use of solarization and biosolarization in reducing the persistence of pesticides in soil.  
Keywords: Sulfates  
Keywords: Degradation  
Keywords: ENA 09:Land Use & Planning  
Keywords: Organic matter  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Malathion  
Keywords: Environmental Studies  
Keywords: Endosulfan  
Keywords: Soil  
Keywords: Chlorpyrifos  
Keywords: Pesticides  
Keywords: Environment Abstracts; Pollution Abstracts  
Keywords: Leachates English. Date revised - 2012-01-01. Last updated - 2012-01-26. DOI - OB-0055fb49-d6c3-48f0-9698csamfg201; 16058870; 0045-6535. SubjectsTermNotLitGenreText - Sulfates; Chlorpyrifos; Soil; Degradation; Organic matter; Pesticides; Leachates; Malathion; Endosulfan

227. Ferguson, D. E. Characteristics and Significance of Resistance to Insecticides in Fishes. 5003//: 1968: 531-536.   
Rec #: 1010  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (AMSV,CPY,DCF,MLN,MP,TEPP), NO REVIEW (AMSV,CPY,DCF,MLN,MP,TEPP)  
Notes: Chemical of Concern: AMSV,CHD,CPY,DCF,DDE,DDT,EN,MLN,MP,MXC,TEPP,TXP

228. Fernandes, Virginia C; Domingues, Valentina F; Mateus, Nuno; Delerue-Matos, Cristina, and Fernandes, Virginia C. Pesticide Residues in Portuguese Strawberries Grown in 2009-2010 Using Integrated Pest Management and Organic Farming. 2012 Nov; 19, (9): 4184-4192.   
Rec #: 2450  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pesticides are among the most widely used chemicals in the world. Because of the widespread use of agricultural chemicals in food production, people are exposed to low levels of pesticide residues through their diets. Scientists do not yet have a total understanding of the health effects of these pesticide residues. This work aims to determine differences in terms of pesticide residue content in Portuguese strawberries grown using different agriculture practices. The Quick, Easy, Cheap, Effective, Rugged, and Safe sample preparation method was conducted and shown to have good performance for multiclass pesticides extraction in strawberries. The screening of 25 pesticides residue was performed by gas chromatography-tandem mass spectrometry. In quantitative validation, acceptable performances were achieved with recoveries of 70-120 and <12 % residual standard deviation for 25 pesticides. Good linearity was obtained for all the target compounds, with highly satisfactory repeatability. The limits of detection were in the range of 0.1-28 mu g/kg. The method was applied to analyze strawberry samples from organic and integrated pest management (IPM) practices harvested in 2009-2010. The results showed the presence of fludioxonil, bifenthrin, mepanipyrim, tolylfluanid, cyprodinil, tetraconazole, and malathion when using IPM below the maximum residue levels.  
Keywords: Diets  
Keywords: Chemicals  
Keywords: Agriculture  
Keywords: Pesticide residues  
Keywords: Food  
Keywords: Mass spectrometry  
Keywords: Pollution research  
Keywords: Pest control  
Keywords: Fragaria  
Keywords: Organic farming  
Keywords: Integrated pest management  
Keywords: Mass spectroscopy  
Keywords: Malathion  
Keywords: ENA 06:Food & Drugs  
Keywords: Fludioxonil  
Keywords: Standard deviation  
Keywords: P 9999:GENERAL POLLUTION  
Keywords: Environmental Studies--Pollution  
Keywords: Pesticides  
Keywords: Pollution Abstracts; Toxicology Abstracts; Environment Abstracts  
Keywords: Economics  
Keywords: X 24330:Agrochemicals  
Keywords: Food production English. Date revised - 2013-03-01. Last updated - 2013-03-21. DOI - OB-d726114d-aec3-4b2e-8d08mfgefd107; 17288572; 0944-1344; 1614-7499. SubjectsTermNotLitGenreText - Agriculture; Fludioxonil; Standard deviation; Pesticide residues; Food; Pesticides; Pollution research; Pest control; Malathion; Mass spectroscopy; Diets; Chemicals; Economics; Mass spectrometry; Organic farming; Integrated pest management; Food production; Fragaria

229. Fianko, Joseph R; Donkor, Augustine; Lowor, Samuel T; Yeboah, Philip O, and Fianko, Joseph R. Agrochemicals and the Ghanaian Environment, a Review. 2011 May; 2, (3): 221.   
Rec #: 6410  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Agrochemicals are generally recognized as a significant factor in enhancing the ability to meet Ghana's need for sufficient, safe and affordable food and fiber, however, increased usage have led to environmental deterioration. In Ghana agriculture and public health sectors remain the major contributors of pollutants into the environment. This is a systematic review of studies done in Ghana to give an integrated picture of agrochemicals especially pesticides exposure to humans, animals, plants, water, soil/sediment and atmosphere in Ghana. Although the widespread usage of agrochemicals in Ghana has contributed immensely to increased food supply and improvement in public health, it has caused tremendous harm to the environment. Water bodies, fish, vegetables, food, soil and sediment have been found to be pesticide contaminated. There is considerable evidence that farmers have overused agrochemicals especially pesticides. It is evident from biological monitoring studies that farmers are at higher risk for acute and chronic health effects associated with pesticides due to occupational exposure. Furthermore the intensive use of pesticides involves a special risk of for field workers, consumers and unacceptable residue levels in exportable products may serve as barrier to international trade. This review will set the future course of action of different studies on agrochemical usage and pesticide exposure in Ghana.  
Keywords: Environmental Studies English. Date revised - 2011-07-01. Last updated - 2011-11-08. DOI - OB-9c1d6aac-1eac-467e-87cbmfgefd107; 15200983; 2152-2197; 2152-2219

230. Filho, Adalberto Menezes; Dos Santos, Fabio Neves; Pereira, Pedro Afonso De Paula, and Filho, Adalberto Menezes. Development, Validation and Application of a Methodology Based on Solid-Phase Micro Extraction Followed by Gas Chromatography Coupled to Mass Spectrometry (Spme/Gc-Ms) for the Determination of Pesticide Residues in Mangoes. 2010 Apr 15; 81, (1-2): 346-354.   
Rec #: 7030  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A method was developed for the simultaneous analysis of 14 pesticide residues (clofentezine, carbofuran, diazinon, methyl parathion, malathion, fenthion, thiabendazole, imazalil, bifenthrin, permethrin, prochloraz, pyraclostrobin, difenoconazole and azoxystrobin) in mango fruit, based on solid-phase micro extraction (SPME) coupled to gas chromatography-mass spectrometry (GC-MS). Different parameters of the method were evaluated, such as fiber type, extraction mode (direct immersion and headspace), temperature, extraction and desorption times, stirring velocities and ionic strength. The best results were obtained using polyacrylate fiber and direct immersion mode at 50 degree C for 30 min, along with stirring at 250 rpm and desorption for 5 min at 280 degree C. The method was validated using mango samples spiked with pesticides at concentration levels ranging from 33.3 to 333.3 mu g kg super(-1). The average recoveries (n = 3) for the lowest concentration level ranged from 71.6 to 117.5%, with relative standard deviations between 3.1 and 12.3%, respectively. Detection and quantification limits ranged from 1.0 to 3.3 mu g kg super(-1) and from 3.33 to 33.33 mu g kg super(-1), respectively. The optimized method was then applied to 16 locally purchased mango samples, all of them containing the pesticides bifenthrin and azoxystrobin in concentrations of 18.3-57.4 and 12.7-55.8 mu g kg super(-1), respectively, although these values were below the MRL established by Brazilian legislation. The method proved to be selective, sensitive, and with good precision and recovery rates, presenting LOQ below the MRL admitted by Brazilian legislation.  
Keywords: Pollution Abstracts English. Date revised - 2010-06-01. Last updated - 2011-12-14. DOI - 6fd72ff0-7c08-44ee-a027csamfg201; 12968827; 0039-9140

231. Fischer, J. E. Oral LD50 Study in Albino Rats with AC 6,601 Malathion Technical (Cheminova Production Batch). 1991.  
Rec #: 560  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

232. Fjordbă¸Ge, Annika S; Baun, Anders; Vastrup, Troels, and Kjeldsen, Peter. Zero Valent Iron Reduces Toxicity and Concentrations of Organophosphate Pesticides in Contaminated Groundwater. 2013 Jan; 90, (2): 627-633.   
Rec #: 5510  
Keywords: MIXTURE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The potential of zero valent iron (ZVI) for remediation of contaminated groundwater from an abandoned chemical disposal site was examined through batch and column experiments. The key contaminants were organophosphate pesticides but the chemical analysis also comprised additional 22 compounds including synthesis intermediates and degradation products of organophosphates. The ZVI treatment showed that all the contaminants were degraded with the exception of two diesters (phosphorothioates). The most rapid reduction was found for methyl parathion, ethyl parathion and malathion, which had first-order degradation rate constants on the order of 10(-3) min(-1). **In the study, acute toxicity towards freshwater crustaceans (Daphnia magna) was included to evaluate the overall efficiency of ZVI treatment of the complex mixture. The acute toxicity tests with D. magna showed that the untreated groundwater was highly toxic.** Thus, 50% of the daphnids were unable to swim upon 24h exposure to groundwater diluted 770 times. ZVI facilitated degradation resulted in a complete toxicity removal for the first four pore volumes, where after a three times dilution caused 50% inhibition of the mobility of the daphnids. The rapid degradation of the highly toxic organophosphates combined with the significant decrease in the ecotoxicological potential shows a promising potential for site remediation of organophosphates with ZVI technologies. Copyright Â© 2012 Elsevier Ltd. All rights reserved.  
Keywords: 7439-89-6  
Keywords: Water Pollutants, Chemical -- chemistry  
Keywords: Water Pollutants, Chemical -- toxicity  
Keywords: Index Medicus  
Keywords: Iron -- chemistry  
Keywords: Organophosphorus Compounds -- chemistry  
Keywords: Pesticides -- toxicity  
Keywords: Environmental Monitoring  
Keywords: Pesticides -- chemistry  
Keywords: Groundwater -- chemistry  
Keywords: Hazardous Waste  
Keywords: Organophosphorus Compounds  
Keywords: 0  
Keywords: Pesticides  
Keywords: Organophosphorus Compounds -- toxicity  
Keywords: Water Pollutants, Chemical  
Keywords: Environmental Remediation -- methods  
Keywords: Iron eng. Date completed - 2013-04-11. Date created - 2012-11-26. Date revised - 2013-04-15. Last updated - 2013-04-15. DOI - MEDL-23021613; 23021613; 1879-1298

233. Food and Drug Administration. Product: Animal Feeds & Feed Ingredients. 1977: 16 p.   
Rec #: 570  
Keywords: NO TOX DATA  
Call Number: NO TOX DATA (CBL,MLN)  
Notes: Chemical of Concern: AND,CBL,CBZ,CHD,DDT,DLD,EN,EPRN,HCCH,HPT,MLN,MXC,PPCP,PRN,TXP

234. For.Serv. Spruce Budworm Malathion Test Project. 3463//: AQUA; 1964.  
Rec #: 580  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

235. Fouad, Dina Mamdouh and Mohamed, Mona Bakr. Studies on the Photo-Catalytic Activity of Semiconductor Nanostructures and Their Gold Core-Shell on the Photodegradation of Malathion. 2011 Nov 11; 22, (45): 455705.   
Rec #: 3040  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This work is devoted to the synthesis of different semiconductor nanoparticles and their metal core-shell nanocomposites such as TiO2, Au/TiO2, ZnO, and Au/ZnO. The morphology and crystal structures of the developed nanomaterials were characterized by transmission electron microscopy (TEM) and x-ray diffraction (XRD). These materials were used as catalysts for the photodegradation of malathion, which is one of the most commonly used pesticides in developing countries. The degradation of 10 ppm malathion under ultraviolet (UV) and visible light in the presence of different synthesized nanocomposites was analyzed using high performance liquid chromatography (HPLC) and UV-visible spectra. A comprehensive study was carried out for the catalytic efficiency of the prepared nanoparticles. Moreover, the effects of different factors that could influence catalytic photodegradation, such as different light sources, surface coverage and the nature of the organic contaminants, were investigated. The results indicate that the core-shell nanocomposite of semiconductor-gold serves as a better catalytic system than the semiconductor nanoparticles themselves.  
Keywords: Zinc Oxide -- pharmacology  
Keywords: Ultraviolet Rays  
Keywords: titanium dioxide  
Keywords: Particle Size  
Keywords: 7440-32-6  
Keywords: pyrazon  
Keywords: Semiconductors  
Keywords: Nanocomposites -- chemistry  
Keywords: Zinc Oxide -- chemistry  
Keywords: Malathion  
Keywords: Chromatography, High Pressure Liquid  
Keywords: Microscopy, Electron, Transmission  
Keywords: Titanium -- pharmacology  
Keywords: Malathion -- chemistry  
Keywords: Titanium -- chemistry  
Keywords: Water Pollutants, Chemical  
Keywords: Gold  
Keywords: Light  
Keywords: Gold -- chemistry  
Keywords: Titanium  
Keywords: Water Pollutants, Chemical -- chemistry  
Keywords: X-Ray Diffraction  
Keywords: 15FIX9V2JP  
Keywords: Index Medicus  
Keywords: Gold -- pharmacology  
Keywords: 26X5RK7X7W  
Keywords: 0  
Keywords: Pyridazines  
Keywords: 7440-57-5  
Keywords: Nanocomposites -- ultrastructure  
Keywords: 1314-13-2  
Keywords: Photolysis -- drug effects  
Keywords: 121-75-5  
Keywords: Water Pollutants, Chemical -- metabolism  
Keywords: Malathion -- metabolism  
Keywords: Zinc Oxide eng. Date completed - 2012-03-01. Date created - 2011-12-14. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-22020195; 22020195; 1361-6528

236. Fuentes, E.; Baez, M. E., and Diaz, J. Survey of organophosphorus pesticide residues in virgin olive oils produced in Chile. 2010; 3, 101-107.   
Rec #: 13250  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Dimethoate, diazinon, parathion methyl, pirimiphos methyl, malathion, fenthion, chlorpyriphos, methidathion and azinphos methyl were determined in 71 olive oil samples produced in Chile from different varieties of olives (arbequina, frantoio, picual, lechino and blend) at three different harvest periods (2007, 2008 and 2009). The target pesticides were determined using a validated analytical method based on microwave-assisted liquid-liquid and solid-phase extraction with subsequent GC-FPD detection and GC-MS/MS for confirmation purposes. In 79% of the samples, five of the nine pesticides tested were detected with a frequency of one pesticide per sample. The highest detection rates were observed for the residues of chlorpyriphos and diazinon. The average concentration of chlorpyriphos, diazinon, azinphos methyl and methidathion were 0.084, 0.057, 0.024 and 0.010 mu g g-1, respectively. Higher contents of organophosphorus pesticides (OPPs) were found in regions where intensive agriculture is practiced. However, the levels of OPPs were reassuringly low and indicate that olive oil produced and exported from Chile does not currently represent any risk for consumers.  
Number of Volumes: 2  
ISI Document Delivery No.: 610ID <Go to ISI>://CCC:000278724300005

237. Fuentes, Edwar; BÃƒÂ¡ez, MarÃƒÂ a E., and QuiÃƒÂ±ones, AdalÃƒÂ. Suitability of microwave-assisted extraction coupled with solid-phase extraction for organophosphorus pesticide determination in olive oil. 2008; 1207, 38-45.   
Rec #: 10600  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A systematic study of the microwave-assisted extraction coupled to solid-phase extraction of nine organophosphorus pesticides (dimethoate, diazinon, pirimiphos methyl, parathion methyl, malathion, fenthion, chlorpyriphos, methidathion and azinphos methyl) from olive oil is described. The method is based on microwave-assisted liquid-liquid extraction with partition of organophosphorus pesticides between an acetonitrile-dichloromethane mixture and oil. Cleanup of extracts was performed with ENVI-Carb solid-phase extraction cartridge using dichloromethane as the elution solvent. The determination of pesticides in the final extracts was carried out by gas chromatography-flame photometric detection and gas chromatography-tandem mass spectrometry, using a triple quadrupole mass analyzer, for confirmative purposes. The study and optimization of the method was achieved through experimental design where recovery of compounds using acetonitrile for partition ranged from 62 to 99%. By adding dichloromethane to the extracting solution, the recoveries of more hydrophobic compounds were significantly increased. Under optimized conditions recoveries of pesticides from oil were equal to or higher than 73%, except for fenthion and chlorpyriphos at concentrations higher than 0.06ÃŽÂ¼ggÃ¢ÂÂ»Ã‚Â¹ and diazinon at 0.03ÃŽÂ¼ggÃ¢ÂÂ»Ã‚Â¹, with RSDs equal to or lower than 11% and quantification limits ranging from 0.007 to 0.020ÃŽÂ¼ggÃ¢ÂÂ»Ã‚Â¹. The proposed method was applied to residue determination of the selected pesticides in commercial olive and avocado oil produced in Chile.  
Keywords: microwave-assisted extraction  
Number of Volumes: 1-2  
Amsterdam; New York: Elsevier http://dx.doi.org/10.1016/j.chroma.2008.08.051

238. Fuentes-Matus, C.; Leon, S. V. Y.; Diaz-Gonzalez, G.; Noa-Perez, M., and Gutierrez-Tolentino, R. DETERMINATION OF RESIDUES OF MALATHION AND MALAOXON IN MANGO VARIETIES ATAULFO AND TOMMY ATKINS PRODUCED IN CHAHUITES, OAXACA. 2010; 44, 215-223.   
Rec #: 13260  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The organophosphate pesticide malathion and its metabolite malaoxon cause harmful effects on the health of humans that consume foods contaminated with these molecules. The presence of residues of malathion and malaoxon was studied in mangos (Mangifera indica) of the varieties Ataulfo and Tommy Atkins produced in the municipality of Chahuites, state of Oaxaca, during the harvest period of 2007. The extraction system used ethyl acetate in aqueous matrix, and analytic determination by means of liquid gas chromatography with thermionic specific detector (TSD). The concentration of residues of malathion and malaoxon was determined for each variety through sampling at 1, 30 and 60 d after having applied malathion (520 g i. a. of malathion ha(-1)), in compliance with the phytosanitary norm (NOM-023-FITO) for the control of the Mexican fruit fly (Anastrepha ludens) on days 1 (T1) and 30 (T2), and two applications of malathion for day 60 (T3). Control mangos of both varieties were used, taken from orchards free of pesticide application for 10 years. The presence of malathion was detected in 75 % and 95.6 % of the samples (n=12) of the varieties Ataulfo and Tommy Atkins. Residues of the metabolite malaoxon were detected in 83.3 % of the samples (n=12) in both varieties. No degradation was observed of either pesticide once it was present in the fruit until day 60 of the study. Furthermore, the means of the residues increased in time three of the study (T3) in both varieties, after two applications of malathion.  
Number of Volumes: 2  
ISI Document Delivery No.: 575CS <Go to ISI>://CCC:000276043300010

239. Fujinami, A. Phenothrin (Wellcide). Pesticides Div.,Sumitomo Chem. Co., Ltd.,Japan//: 1980; 37, 30-36.   
Rec #: 1720  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ATN,BRSM,DDVP,DZ,FNT,MLN,PPB,SMT,TMT), NO REVIEW (ATN,BRSM,DDVP,DZ,FNT,MLN,PPB,SMT,TMT)  
Notes: Chemical of Concern: ATN,BRSM,DDT,DDVP,DZ,FNT,MLN,PPB,SMT,TMT

240. Fulton, M. H. and Key, P. B. Acetylcholinesterase Inhibition in Estuarine Fish and Invertebrates as an Indicator of Organophosphorus Insecticide Exposure and Effects. 2001; 20, (1): 37-45.   
Rec #: 120  
Keywords: REVIEW  
Call Number: NO REVIEW (AZ,CBF,CBL,CPY,DDVP,DMT,DZ,FNT,MLN,MP,Naled,PRT,TBF)  
Notes: EcoReference No.: 152621  
Chemical of Concern: AZ,CBF,CBL,CPY,DDVP,DMT,DZ,EPRN,FNT,MLN,MP,Naled,PHSL,PPHD,PRN,PRT,TBF

241. Furlong, C. E.; Cole, T. B.; Jansen, K. L.; Richter, R. J.; Bammler, T. K.; Beyer, R. P.; Farin, F., and Costa, L. G. Genetic variability factors in human susceptibility to organophosphorus compounds: Abstracts of the XII International Congress of Toxicology. 2010 Jul 17-; 196, Supplement, (0): S32.   
Rec #: 1480  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: http://www.sciencedirect.com/science/article/pii/S0378427410002754

242. Gaaboub, I. A.; Rawash, I. A., and Saleh, M. S. The Effect of Larval Selection with DDT and Malathion on the Susceptibility State of Larvae and Adults of Culex pipiens L. During the Successive Generations. 1031//1971 Address: Plant Protection Dep. Faculty of Agric., Univ. of Alexandria, Egypt//: AQUA; 1977: 472-479.   
Rec #: 590  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: DDT,MLN

243. Galã¡Ntai, Rita; Emody-Kiss, Blanka; Somosy, Zoltã N; Bognã¡R, Gabriella; Horvã¡Th, Gyozo; Forgã¡Cs, Zsolt; Gachã¡Lyi, Andrã S, and Szilasi, Mã Ria. Does Malaoxon Play a Role in the Geno- and Cytotoxic Effects of Malathion on Human Choriocarcinoma Cells? 2011; 46, (8): 773-779.   
Rec #: 3770  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This investigation was undertaken to elucidate whether the active metabolite of malathion, malaoxon, has any role in exerting cyto- and genotoxic effects for human choriocarcinoma (JAR) cell line which is an acceptable model for human placental cells. Gas chromatography-mass spectrometry (GC-MS) analysis were separately performed on the cell compartment and supernatant cell culture medium after subjecting the cell line to different malathion concentrations (10-400 Î¼g/mL) and for various incubation periods (0.5 to 24 hours). GC-MS analysis showed that the sonication performed for the disruption of the cells did not cause the chemical change of malathion. The uptake of malathion by the cells was relatively fast. However, the presence of malaoxon, even in trace amounts, could not be confirmed either in samples originating from disrupted cells or in the cell culture medium. Although the hydrolysis of malaoxon occurred in the culture medium, this degradation process could not be counted as a reason for the absence of malaoxon. Since both malathion and malaoxon standard compounds could be accurately detected and distinguished by the applied liquid-liquid extraction and GC-MS methods, one can conclude that, in the case of JAR cells, the parent compound, (i.e. malathion itself) is responsible for the observed in vitro cyto- and genotoxic effects. Our results indicate that the direct toxicity of malathion contributes to the complications of pregnancy observed for environmental malathion exposure.  
Keywords: Mutagens  
Keywords: Humans  
Keywords: Index Medicus  
Keywords: Mutagens -- toxicity  
Keywords: Cell Line, Tumor  
Keywords: Malathion -- analogs & derivatives  
Keywords: Malathion  
Keywords: DNA Damage -- drug effects  
Keywords: Choriocarcinoma -- genetics  
Keywords: 0  
Keywords: Choriocarcinoma -- drug therapy  
Keywords: Mutagens -- metabolism  
Keywords: 1634-78-2  
Keywords: 121-75-5  
Keywords: Choriocarcinoma -- metabolism  
Keywords: Malathion -- toxicity  
Keywords: malaoxon  
Keywords: Malathion -- metabolism eng. Date completed - 2011-10-10. Date created - 2011-09-09. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-21902555; 21902555; 1532-4109

244. Gallego, Alejandro; Hospido, Almudena; Moreira, Maria Teresa; Feijoo, Gumersindo, and Gallego, Alejandro. Environmental Assessment of Dehydrated Alfalfa Production in Spain. 2011 Sep; 55, (11): 1005-1012.   
Rec #: 6220  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Alfalfa is the major forage crop produced in temperate regions worlwide. Although this crop is currently used mainly for producing high-value livestock feed, its application for bioenergy production is a recent focus of interest. Even though it is not mandatory, alfalfa is normally dried in order to improve the quality of the final product. In this study, Life Cycle Assessment (LCA) was used to quantify the environmental impacts linked to alfalfa production in the major cultivation zone in Spain (Ebro Valley), including field activities, dehydration and transport to farms for livestock feeding. In addition, the identification of the most relevant processes contributing to the environmental impact and the potential improvements actions were also defined as objectives. Inventory data were obtained mainly from interviews with farmers complemented with published literature and comments from experts. LCA results were obtained for global warming, acidification, eutrophication, photochemical oxidant formation, land use, non-renewable cumulative energy demand and human, terrestrial and aquatic ecotoxicities. Within the life cycle of alfalfa, the dehydration process, production of phosphate fertilizer, application of nitrogen fertilizers and pesticides, water consumption and final transport to the consumer (by road and ship) were identified as hot spots. Based on these, some improvement measures were proposed and evaluated: (i) reduction of the moisture content of alfalfa and the use of a higher percentage of biomass for combustion in the dehydration process, (ii) no application of nitrogen fertilizer in maintenance years and (iii) use of more efficient trucks for transport. Their implementation would produce significant reduction of eutrophication, global warming, acidification, non-renewable cumulative energy demand and, to a lesser extent, photochemical oxidation formation and human toxicity impacts.  
Keywords: Fertilizers  
Keywords: Eutrophication  
Keywords: life cycle analysis  
Keywords: Sustainability Science Abstracts  
Keywords: M3 1010:Issues in Sustainable Development  
Keywords: Climatic changes  
Keywords: Environmental impact  
Keywords: Global warming  
Keywords: Conservation  
Keywords: alfalfa  
Keywords: Acidification  
Keywords: Toxicity English. Date revised - 2012-01-01. Last updated - 2012-01-19. DOI - OB-4073dc73-3925-4bce-bfa6csaobj201; 15552202; 0921-3449. SubjectsTermNotLitGenreText - Fertilizers; Eutrophication; life cycle analysis; Climatic changes; Environmental impact; Global warming; alfalfa; Acidification; Toxicity

245. Ganieva, S M; Iskandarov, a I; Abdurahmanova, M O, and Ganieva, S M. Preventing Ways of Acute Poisoning in Children. 2010; 16, A8.   
Rec #: 7210  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Among evils, bringing children by civilisation and technical progress for the last decades, especially significant are traumas and poisoning. The aim of study is carry out of quantitative diagnostics criteria and evaluation severity degree of chemical traumas in children and recommendations on their prevention. Material for study were 62 cases of acute poisoning among children at the age from 5 months to 18 years by the most wide-spread poisons: industrial ones dichlorethan, acetic acid; domestic are PhOI compounds (carbophos, chlorophosis), medicines soporifics from the group of barbituric acid (Phenobarbital). More often the poisonings take place at the age under 5 years old; in our study the poisonings at this age were 72.6%. It is explained by large inquisitiveness and activity of early and preschool age children. Very dangerous age is from 1 to 3 years, the poisonings at this age were 59.7% in our observations. The second little peak is observed at the age 12-14 years. It is explained by more frequent attempts of suicide in pubertal period. Among poisoned boys were more 67.7% cases than girls were 32.3%. This fact can be explained by higher activity of boys young and preschool age, their big inquisitiveness and inclination to adventures. Thus, the main ways of preventing acute poisonings in children are: creating intellectual computer system on base of toxicometric researches; creating electron database in toxicology; creating International informative toxicologic centre; instructive work among parents; put scientific working-outs on toxicology into practice.  
Keywords: Age  
Keywords: H 11000:Diseases/Injuries/Trauma  
Keywords: Injuries  
Keywords: prevention  
Keywords: Poisoning  
Keywords: Health & Safety Science Abstracts  
Keywords: Children  
Keywords: suicide  
Keywords: Toxicology English. Date revised - 2011-11-01. Last updated - 2012-03-29. DOI - adfcacda-0313-43b3-aabbcsamfg201; 14451564; 1353-8047. SubjectsTermNotLitGenreText - Age; Injuries; prevention; Poisoning; Children; suicide; Toxicology

246. Gao, Jijun; Liu, Linghua; Liu, Xiaoru; Lu, Jin; Hao, Hong; Yuan, Hao; Zhou, Huaidong, and Gao, Jijun. The Organic Contamination Survey and Health Risk Assessment of 16 Source Water Reservoirs in Haihe River Basin. 2012; 65, (6): 998-1006.   
Rec #: 6000  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Although contamination by organic pollutants has previously been reported to occur in the Haihe River basin, few studies have been carried out on the levels of source water reservoir contamination and the health risk in the Haihe River basin. To understand the organic pollution status of the reservoirs in the Haihe River basin, samples were collected from 16 source water reservoirs. The samples were analyzed for the representative organic pollutants, which included benzene homologues, chlorobenzene compounds, organophosphorus pesticides, and nitrobenzene compounds, a total in all of 17 compounds. It was observed that the concentrations of the 17 compounds in the 16 reservoirs were all less than the limit laid down by Chinese surface water quality standards. In addition, benzene, toluene, nitrobenzene, p-nitrochlorobenzene, 2,4-dinitrotoluene and 2,4-dinitrochlorobenzene, dichlorvos, demeton, dimethoate methyl parathion, malathion and parathion were frequently detected in the 16 source water reservoirs, especially the organophosphorus pesticides; the detection rates of dichlorvos, dimethoate, methyl parathion, malathion and parathion were all 100% in the 16 source water reservoirs. The detection rate of target compounds suggested that organic pollution had been common in the source water of the Haihe River basin. The health risk assessment results suggested that the noncarcinogenic risk hazard quotient values of the target compounds were less than one, and the cancer risk values were all below 1 x 10 super(-6), which indicated that the heath risk produced by the target compounds in the 16 reservoirs was at an acceptable level.  
Keywords: Risk assessment  
Keywords: Benzenes  
Keywords: River Basins  
Keywords: Water Pollution Sources  
Keywords: Surface water quality  
Keywords: Environmental Studies  
Keywords: Public Health  
Keywords: Assessments  
Keywords: H 5000:Pesticides  
Keywords: R2 23060:Medical and environmental health  
Keywords: Reservoirs  
Keywords: Dichlorvos  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: Pollution detection  
Keywords: SW 3050:Ultimate disposal of wastes  
Keywords: Meteorological & Geoastrophysical Abstracts; Risk Abstracts; Health & Safety Science Abstracts; Environment Abstracts; Pollution Abstracts; Aqualine Abstracts; Water Resources Abstracts  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Nitrobenzene  
Keywords: dichlorvos  
Keywords: River basins  
Keywords: Cancer  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Risk  
Keywords: Health risks  
Keywords: Pesticides  
Keywords: Pesticides in river water  
Keywords: Dimethoate  
Keywords: dimethoate  
Keywords: M2 556.52:River Systems (556.52)  
Keywords: Parathion English. Date revised - 2012-11-01. Last updated - 2012-12-06. DOI - OB-adcc10b5-ce6d-4bd9-a9c8csamfg201; 16770606; 0273-1223. SubjectsTermNotLitGenreText - Pesticides in river water; River basins; Surface water quality; Reservoirs; Risk assessment; Pollution detection; Nitrobenzene; dichlorvos; Cancer; Health risks; Pesticides; Dimethoate; dimethoate; Dichlorvos; Parathion; Risk; Benzenes; River Basins; Public Health; Assessments; Water Pollution Sources

247. Gao, Jijun; Liu, Linghua; Liu, Xiaoru; Zhou, Huaidong; Lu, Jin; Huang, Shengbiao; Wang, Zijian, and Wang, Zijian. The Occurrence and Spatial Distribution of Organophosphorous Pesticides in Chinese Surface Water. 2009 Feb; 82, (2): 223-229.   
Rec #: 5090  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The organophosphorous pesticides (OPPs) contaminations have been reported to occur in some Chinese waters. To describe the contamination status and the spatial distribution of OPPs in the surface water throughout China, samples were collected from over 600 sites located in the surface water of seven major river basins and three main internal rivers drainage areas during 2003 and 2004. The surface water samples were analyzed for the representative OPPs including dichlorvos, demeton, dimethoate, methyl parathion, malathion and parathion. In general, the most frequently detected compound was dichlorvos and demeton, being detected in 89.1% of samples (mean=17.8ng/L; range <1.4-1,552.0ng/L) for dichlorvos, and 78.2% of samples (mean=35.4ng/L; range <1.5-2,560.0ng/L) for demeton. While the detection frequencies of the dimethoate, methyl parathion, malathion, and parathion were all less than 50% in all the surface water samples. Measured concentrations for the six compounds were low and rarely exceed the environment quality standard for surface water of China. The six OPPs compounds were more frequently detected at much higher concentrations in the rivers of north China compared with those of south China. The results of this investigation indicate that OPPs contamination in the Yellow River, Huaihe River, Liaohe River, and Haihe River basins of north China should be of particular concern. When compared with other regions of the world, it appears that the Chinese surface water is some moderately polluted by dimethoate, methyl parathion, malathion, parathion and contaminated by dichlorvos and demeton in certain degree.  
Keywords: River Basins  
Keywords: China, People's Rep., Liaoning Prov., Liaohe R.  
Keywords: Contamination  
Keywords: Spatial distribution  
Keywords: Surface water  
Keywords: SW 3030:Effects of pollution  
Keywords: Surface Water  
Keywords: Spatial Distribution  
Keywords: Freshwater  
Keywords: China, People's Rep., Huang He R.  
Keywords: Malathion  
Keywords: Environmental Studies  
Keywords: Pollution Abstracts; Environment Abstracts; Water Resources Abstracts; Aqualine Abstracts; ASFA 2: Ocean Technology Policy & Non-Living Resources; ASFA 3: Aquatic Pollution & Environmental Quality; Environmental Engineering Abstracts; Toxicology Abstracts  
Keywords: spatial distribution  
Keywords: Agricultural Chemicals  
Keywords: China, People's Rep., Huaihe R.  
Keywords: Methyl parathion  
Keywords: Q2 02346:Dangerous organisms  
Keywords: X 24330:Agrochemicals  
Keywords: Toxicology  
Keywords: Dichlorvos  
Keywords: Rivers  
Keywords: EE 40:Water Pollution: Monitoring, Control & Remediation  
Keywords: Pollution detection  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Drainage  
Keywords: dichlorvos  
Keywords: AQ 00008:Effects of Pollution  
Keywords: River basins  
Keywords: Q5 01504:Effects on organisms  
Keywords: Water pollution  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Pesticides  
Keywords: drainage water  
Keywords: Environmental quality  
Keywords: Dimethoate  
Keywords: dimethoate  
Keywords: Parathion English. Date revised - 2010-02-01. Last updated - 2011-10-25. DOI - OB-MD-0010968822; 11767778; CS1010137; 0007-4861; 1432-0800. SubjectsTermNotLitGenreText - Surface water; Pesticides; River basins; Toxicology; Water pollution; Rivers; Spatial distribution; Contamination; Drainage; Methyl parathion; Dimethoate; Malathion; Dichlorvos; Parathion; spatial distribution; Pollution detection; dichlorvos; Environmental quality; drainage water; dimethoate; River Basins; Agricultural Chemicals; Surface Water; Spatial Distribution; China, People's Rep., Liaoning Prov., Liaohe R.; China, People's Rep., Huaihe R.; China, People's Rep., Huang He R.; Freshwater

248. Garcã­a-Reyes, Juan F; Jackson, Ayanna U; Molina-Dã­Az, Antonio, and Cooks, R Graham. Desorption Electrospray Ionization Mass Spectrometry for Trace Analysis of Agrochemicals in Food. 2009 Jan 15; 81, (2): 820-829.   
Rec #: 7820  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Desorption electrospray ionization (DESI) is applied to the rapid, in situ, direct qualitative and quantitative (ultra)trace analysis of agrochemicals in foodstuffs. To evaluate the potential of DESI mass spectrometry (MS) in toxic residue testing in food, 16 representative multiclass agricultural chemicals (pesticides, insecticides, herbicides, and fungicides) were selected (namely, ametryn, amitraz, azoxystrobin, bitertanol, buprofezin, imazalil, imazalil metabolite, isofenphos-methyl, malathion, nitenpyram, prochloraz, spinosad, terbuthylazine, thiabendazole, and thiacloprid). The DESI-MS experiments were performed using 3 microL of solution spotted onto conventional smooth poly(tetrafluoroethylene) (PTFE) surfaces, with examination by MS and tandem mass spectrometry (MS/MS) using an ion trap mass spectrometer. Optimization of the spray solvent led to the use of acetonitrile/water (80:20) (v/v), with 1% formic acid. Most of the compounds tested showed remarkable sensitivity in the positive ion mode, approaching that attainable with conventional direct infusion electrospray mass spectrometry. To evaluate the potential of the proposed approach in real samples, different experiments were performed including the direct DESI-MS/MS analysis of fruit peels and also of fruit/vegetable extracts. The results proved that DESI allows the detection and confirmation of traces of agrochemicals in actual market-purchased samples. In addition, MS/MS confirmation of selected pesticides in spiked vegetable extracts was obtained at absolute levels as low as 1 pg for ametryn. Quantitation of imazalil residues was also undertaken using an isotopically labeled standard. The data obtained were in agreement with those from the liquid chromatography mass spectrometry (LC-MS) reference method, with relative standard deviation (RSD) values consistently below 15%. The results obtained demonstrate the sensitivity of DESI as they meet the stringent European Union pesticide regulation requirements (maximum residue levels) for a large percentage of the studied compounds.  
Keywords: Spectrometry, Mass, Electrospray Ionization  
Keywords: Pesticide Residues -- isolation & purification  
Keywords: Agrochemicals -- analysis  
Keywords: Index Medicus  
Keywords: Pesticide Residues  
Keywords: Tandem Mass Spectrometry  
Keywords: Pesticide Residues -- chemistry  
Keywords: Agrochemicals  
Keywords: Chromatography, High Pressure Liquid  
Keywords: Vegetables -- chemistry  
Keywords: 0  
Keywords: Pesticide Residues -- analysis  
Keywords: Fruit -- chemistry eng. Date completed - 2009-02-20. Date created - 2009-01-21. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-19090743; 19090743; 1520-6882

249. Ge, Jing; Cong, Jian; Sun, Ying; Li, Guoxue; Zhou, Zhiqiang; Qian, Chuanfan; Liu, Fengmao, and Liu, Fengmao. Determination of Endocrine Disrupting Chemicals in Surface Water and Industrial Wastewater From Beijing, China. 2010 Apr; 84, (4): 401-405.   
Rec #: 7060  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: An analytical method was developed for determination of some endocrine-disrupting chemicals in water samples from Beijing, China. Fifty two surface water and 50 industrial wastewater samples were analyzed. The residue was detected in 26 industrial wastewater and 19 surface water samples. Atrazine was detected in 8 samples at different levels ranging from 0.12 to 5.16 mu gL super(-1), and phenolic compounds were detected in 19 samples ranging from 0.8 to 26.1 mu gL super(-1). The results show that the main pollutants of surface water samples were atrazine and octylphenol. In industrial wastewater samples, bisphenol A and octylphenol were most commonly found.  
Keywords: Chemicals  
Keywords: China, People's Rep., Beijing  
Keywords: Water sampling  
Keywords: Contamination  
Keywords: Surface water  
Keywords: endocrine disruptors  
Keywords: Water Analysis  
Keywords: Endocrine disruptors  
Keywords: Water Sampling  
Keywords: SW 3030:Effects of pollution  
Keywords: Surface Water  
Keywords: Environmental Studies  
Keywords: Bisphenol A  
Keywords: Pollutants  
Keywords: phenolic compounds  
Keywords: X 24330:Agrochemicals  
Keywords: bisphenol A  
Keywords: Residues  
Keywords: Industrial Wastewater  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: AQ 00008:Effects of Pollution  
Keywords: Herbicides  
Keywords: Octylphenol  
Keywords: Analytical Methods  
Keywords: Water Pollution Effects  
Keywords: Atrazine  
Keywords: Waste water  
Keywords: Wastewater  
Keywords: Pollution Abstracts; Environment Abstracts; Water Resources Abstracts; Aqualine Abstracts; Toxicology Abstracts English. Date revised - 2010-02-01. Last updated - 2011-10-25. DOI - OB-fa687ec5-b730-4c7d-94a9mfgefd101; 12668432; 0007-4861; 1432-0800. SubjectsTermNotLitGenreText - Bisphenol A; Pollutants; Surface water; Endocrine disruptors; Atrazine; phenolic compounds; Waste water; Octylphenol; Chemicals; bisphenol A; Residues; Water sampling; endocrine disruptors; Herbicides; Wastewater; Contamination; Water Analysis; Analytical Methods; Industrial Wastewater; Water Pollution Effects; Water Sampling; Surface Water; China, People's Rep., Beijing

250. Gebara, Ab; Ciscato, Chp; Monteiro, Sh; Souza, G S, and Ciscato, CHP. Pesticide Residues in Some Commodities: Dietary Risk for Children. 2011 May; 86, (5): 506-510.   
Rec #: 6390  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The objective of this study was to identify pesticides found in infantsa and childrenas diets. Fruits and vegetables were collected from 2004 to 2007 and analyzed using a multiresidue method. The most frequently detected residues were procymidone, captan, chlorpyrifos and chlorothalonil. Twenty-eight percent of the samples contained pesticide residues. Strawberry, pear, apple, peach and tomato contained pesticide levels of concern. Twenty-one pesticides were found with the estimated total mean daily intake greater than the acceptable daily intake for four of the pesticides. Residues of carbaryl, diazinon and methidathion exceeded regulatory levels in (apple, strawberry, and orange).  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2011-05-01. Last updated - 2011-11-05. DOI - OB-45c56b3d-dc9d-400b-b5e1mfgefd101; 14763878; 0007-4861; 1432-0800

251. Georgopoulos, Panos G; Sasso, Alan F; Isukapalli, Sastry S; Lioy, Paul J; Vallero, Daniel a ; Okino, Miles; Reiter, Larry, and Georgopoulos, Panos G. Reconstructing Population Exposures to Environmental Chemicals From Biomarkers: Challenges and Opportunities. 2009 Feb; 19, (2): 149-171.   
Rec #: 7800  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A conceptual/computational framework for exposure reconstruction from biomarker data combined with auxiliary exposure-related data is presented, evaluated with example applications, and examined in the context of future needs and opportunities. This framework employs physiologically based toxicokinetic (PBTK) modeling in conjunction with numerical "inversion" techniques. To quantify the value of different types of exposure data "accompanying" biomarker data, a study was conducted focusing on reconstructing exposures to chlorpyrifos, from measurements of its metabolite levels in urine. The study employed biomarker data as well as supporting exposure-related information from the National Human Exposure Assessment Survey (NHEXAS), Maryland, while the MENTOR-3P system (Modeling ENvironment for TOtal Risk with Physiologically based Pharmacokinetic modeling for Populations) was used for PBTK modeling. Recently proposed, simple numerical reconstruction methods were applied in this study, in conjunction with PBTK models. Two types of reconstructions were studied using (a) just the available biomarker and supporting exposure data and (b) synthetic data developed via augmenting available observations. Reconstruction using only available data resulted in a wide range of variation in estimated exposures. Reconstruction using synthetic data facilitated evaluation of numerical inversion methods and characterization of the value of additional information, such as study-specific data that can be collected in conjunction with the biomarker data. Although the NHEXAS data set provides a significant amount of supporting exposure-related information, especially when compared to national studies such as the National Health and Nutrition Examination Survey (NHANES), this information is still not adequate for detailed reconstruction of exposures under several conditions, as demonstrated here. The analysis presented here provides a starting point for introducing improved designs for future biomonitoring studies, from the perspective of exposure reconstruction; identifies specific limitations in existing exposure reconstruction methods that can be applied to population biomarker data; and suggests potential approaches for addressing exposure reconstruction from such data.Journal of Exposure Science and Environmental Epidemiology (2009) 19, 149-171; doi:10.1038/jes.2008.9; published online 26 March 2008  
Keywords: Pollution Abstracts; Risk Abstracts; Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2010-09-01. Last updated - 2011-11-04. DOI - OB-6aff6d8f-ea08-4ff9-b6e8mfgefd108; 13443684; 1559-0631

252. Gholipour, Yousef; Erra-Balsells, Rosa; Nonami, Hiroshi, and GHOLIPOUR, Yousef. Detection of Pesticides on Tomato Fruit Surface by Ultraviolet Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. 2012; 50, (2): 107-116.   
Rec #: 2900  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Small amounts of pesticides and their transformation products may exist on edible parts before harvesting tomato (Solanum lycopersicum L.) fruits. For analyzing these compounds, special techniques with minimum preparations and high sensitivity are needed. The capability of a technique for in situ detection of target chemicals can be also a great advantage. Here we report the applicability of ultraviolet matrix-assisted laser desorption/ionization time of flight mass spectrometry (UV-MALDI TOF MS) for direct detection of pesticides and the residues on the tomato fruit surface. Fruits grown in the hydroponic system in a greenhouse were sprayed with a mixture of four pesticides including benomyl, triforine, milbemycin and malathion and collected one week later. The pericarp of sprayed and control fruits was peeled and located on a UV-MALDI plate, air-dried and covered with carbon nanotubes or 2,5-dihydroxybenzoic acid as matrixes. Signals of active and supplementary compounds which are normally present in commercial pesticides could be analyzed and directly detected on the surface of cuticle. A malathion degradation product was also detected on the sprayed fruit pericarp.  
Keywords: Chemicals  
Keywords: Fruits  
Keywords: Residues  
Keywords: ENA 09:Land Use & Planning  
Keywords: Solanum  
Keywords: Mass spectrometry  
Keywords: Malathion  
Keywords: Greenhouses  
Keywords: Lycopersicon esculentum  
Keywords: Hydroponics  
Keywords: P 9999:GENERAL POLLUTION  
Keywords: Benomyl  
Keywords: Pesticides  
Keywords: Pollution Abstracts; Environment Abstracts English. Date revised - 2012-10-01. Last updated - 2012-12-03. DOI - 488626c5-f82f-45af-a080-cb05c63e31bd; 17301292; 1880-554X; 1883-0986. SubjectsTermNotLitGenreText - Chemicals; Fruits; Hydroponics; Residues; Benomyl; Pesticides; Mass spectrometry; Malathion; Greenhouses; Lycopersicon esculentum; Solanum

253. Ghoshdastidar, A. J.; Saunders, J. E.; Brown, K. H., and Tong, A. Z. Membrane bioreactor treatment of commonly used organophosphate pesticides. 2012; 47, 742-750.   
Rec #: 13400  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Five pesticide formulations registered for use in Canada containing organophosphate-insecticide active ingredients azinphos-methyl, chlorpyrifos, diazinon, malathion and phorate were subjected to treatment by membrane bioreactor (MBR) technology. The target active ingredients were introduced to the MBR at ppm level concentrations. The biodegradation of these compounds was analyzed daily using selected ion monitoring gas chromatography-mass spectrometry (GC/MS-SIM) following extraction of the analytes using solid-phase extraction (SPE). Amounts measuring 83 % to 98 % of the target analytes were removed with steady-state concentrations being reached within 5 days of their introduction. The dissolved oxygen, temperature, pH, and total heterotrophic bacterial population were monitored daily to ensure optimal conditions for biodegradation. The quality of the effluent from the MBR was assessed daily through spectrophotometric methods. Measurements were conducted for the concentration of ammonia, nitrate, nitrite, total and reactive phosphorus, as well as the chemical oxygen demand (COD) of the effluent. This study demonstrated that the MBR technology is feasible and efficient for treatment of organophosphate pesticides without introducing additional chemical additives.  
Number of Volumes: 7  
ISI Document Delivery No.: 936SG <Go to ISI>://CCC:000303609700017

254. Gill, A. C.; Robinson, J. A.; Redmond, J. E., and Bradley, M. W. Assessment of Water-Quality Conditions in Fivemile Creek in the Vicinity of the Fivemile Creek Greenway, Jefferson County, Alabama, 2003-2005. 2008: 114 p.   
Rec #: 1710  
Keywords: NO DURATION,SURVEY  
Call Number: NO DURATION (24DP,ACE,ANT,ATZ,Ag,As,BMC,CBL,CHR,CLNB,CPMR,Conazoles,Cr,Cr element,Cu,DCA,DCB,DFPA,DLMEN,DZ,ES1,FA,FLU,FPN,HXZ,IGS,IND,LQN,MLN,MLX,MYC,NAPH,PAHs,PCP,PCRE,PDM,PHE,PMT,PNB,PRO,PYR,RLIM,SFR,SZ,TET,TFN,TPMR,Zn,Zn element), NO SURVEY (24DP,ACE,ANT,ATZ,Ag,As,BMC,CBL,CHR,CLNB,CPMR,Conazoles,Cr,Cr element,Cu,DCA,DCB,DFPA,DLMEN,DZ,ES1,FA,FLU,FPN,HXZ,IGS,IND,LQN,MLN,MLX,MYC,NAPH,PAHs,PCP,PCRE,PDM,PHE,PMT,PNB,PRO,PYR,RLIM,SFR,SZ,TET,TFN,TPMR,Zn,Zn element)  
Notes: Chemical of Concern: 1Major ions,24DC,24DP,2CP,4CE,4NP,ACE,AND,ANT,ATZ,Ag,Al,As,BAP,BFL,BMC,BPA,BZD,CBL,CHR,CLNB,CPMR,Cr,Cr element,Cu,DCA,DCB,DDE,DDT,DEET,DFPA,DLD,DLMEN,DTM,DZ,ES1,FA,FLU,FPN,HCB,HCCH,HCCP,HPT,HXZ,IGS,IND,ISO,LQN,MLN,MLX,MRX,MSC,MXC,MYC,Mg ion,NAPH,NBZ,NPH,PAHs,PBDE,PCB,PCP,PCRE,PDM,PHE,PHTH,PL,PMT,PNB,PPCP,PRO,PYR,RLIM,SFR,SZ,TEC,TET,TFN,TPMR,TXP,Zn,Zn element

255. Gill, B; Kaur, R; Singh, K, and Gill, B. Analysis of Azotobacter Spp. Towards Organophosphate Pesticide Malathion Degradation. 2009 Jun 28.  
Rec #: 4870  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Pesticides (organophosphorus)  
Keywords: U 2000:Biological Sciences  
Keywords: Degradation  
Keywords: Organophosphates  
Keywords: Pesticides  
Keywords: Malathion  
Keywords: Azotobacter English. Date revised - 2009-09-28. Last updated - 2010-05-03. DOI - CPI-5178322; 5178322

256. Giordano, Ady; Richter, Pablo; Ahumada, Ines, and Giordano, Ady. Determination of Pesticides in River Water Using Rotating Disk Sorptive Extraction and Gas Chromatography-Mass Spectrometry. 2011 Oct 15; 85, (5): 2425-2429.   
Rec #: 3100  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The rotating disk sorptive extraction (RDSE) technique was applied to the determination of pesticides in aqueous samples. Pesticides of different polarities were considered in this study: chlorpyrifos, diazinon, fenvalarate, cyhalothrin, cypermethrin, lindane and malathion. The sorptive/desorptive behavior of the pesticides was studied using a rotating disk containing a polydimethylsiloxane (PDMS) phase on one of its surfaces. The analyte polarity was a significant factor in the extraction time; shorter extraction times were required for the more apolar pesticides. The optimum variables for the extraction of all analytes were: extraction time of 3 h, sample volume of 25 mL, rotational velocity of the disk 1250 rpm, desorption time of 30 min using methanol. For pesticides with values of Log K sub(ow) 4, the extraction time can be reduced to 30 min for a quantitative extraction. Under these conditions, recoveries between 76% and 101% were obtained for the target pesticides, and the repeatability of the methodology, expressed as relative standard deviation, was determined to be between 10% and 20%. Additionally, the limits of detection of the analytes were lower than 3.1 mu g L super(-1). The extraction method developed using the RDSE was compared to a stir bar sorptive extraction (SBSE) under the same conditions. It can be observed that the extraction using the rotating disk offers higher recoveries because of its higher PDMS volume and its higher surface area to volume ratio that allows for improved mass transfer.  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: SW 3050:Ultimate disposal of wastes  
Keywords: Desorption  
Keywords: Agricultural Chemicals  
Keywords: Standard Deviation  
Keywords: Pesticides  
Keywords: Mass Transfer  
Keywords: Water Resources Abstracts; Aqualine Abstracts; ASFA 2: Ocean Technology Policy & Non-Living Resources  
Keywords: Velocity  
Keywords: Polarity  
Keywords: Lindane  
Keywords: Malathion English. Date revised - 2012-05-01. Last updated - 2012-12-14. DOI - 2a0d9f39-2182-487e-bf69csaobj201; 15796163; 0039-9140. SubjectsTermNotLitGenreText - Desorption; Agricultural Chemicals; Standard Deviation; Pesticides; Mass Transfer; Velocity; Lindane; Polarity; Malathion

257. Goda, Sayed K; Elsayed, Iman E; Khodair, Taha a; El-Sayed, Walaa; Mohamed, Mervat E, and Goda, Sayed K. Screening for and Isolation and Identification of Malathion-Degrading Bacteria: Cloning and Sequencing a Gene That Potentially Encodes the Malathion-Degrading Enzyme, Carboxylestrase in Soil Bacteria. 2010 Nov; 21, (6): 903-913.   
Rec #: 3920  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Five malathion-degrading bacterial strains were enriched and isolated from soil samples collected from different agricultural sites in Cairo, Egypt. Malathion was used as a sole source of carbon (50mg/l) to enumerate malathion degraders, which were designated as IS1, IS2, IS3, IS4, and IS5. They were identified, based on their morphological and biochemical characteristics, as Pseudomonas sp., Pseudomonas putida, Micrococcus lylae, Pseudomonas aureofaciens, and Acetobacter liquefaciens, respectively. IS1 and IS2, which showed the highest degrading activity, were selected for further identification by partial sequence analysis of their 16S rRNA genes. The 16S rRNA gene of IS1 shared 99% similarity with that of Alphaprotoebacterium BAL284, while IS2 scored 100% similarity with that of Pseudomonas putida 32zhy. Malathion residues almost completely disappeared within 6days of incubation in IS2 liquid cultures. LC/ESI-MS analysis confirmed the degradation of malathion to malathion monocarboxylic and dicarboxylic acids, which formed as a result of carboxylesterase activity. A carboxylesterase gene (CE) was amplified from the IS2 genome by using specifically designed PCR primers. The sequence analysis showed a significant similarity to a known CE gene in different Pseudomonas sp. We report here the isolation of a new malathion-degrading bacteria from soils in Egypt that may be very well adapted to the climatic and environmental conditions of the country. We also report the partial cloning of a new CE gene. Due to their high biodegradation activity, the bacteria isolated from this work merit further study as potential biological agents for the remediation of soil, water, or crops contaminated with the pesticide malathion.  
Keywords: Genomes  
Keywords: Microbiology Abstracts A: Industrial & Applied Microbiology; Genetics Abstracts; Microbiology Abstracts B: Bacteriology; Biotechnology and Bioengineering Abstracts  
Keywords: Biodegradation  
Keywords: J 02320:Cell Biology  
Keywords: Pseudomonas  
Keywords: A 01320:Microbial Degradation  
Keywords: Malathion  
Keywords: Crops  
Keywords: Soil microorganisms  
Keywords: Soil  
Keywords: Acetobacter liquefaciens  
Keywords: Carbon  
Keywords: Biochemical characteristics  
Keywords: Polymerase chain reaction  
Keywords: Micrococcus  
Keywords: Pseudomonas putida  
Keywords: Enzymes  
Keywords: Carboxylesterase  
Keywords: W 30950:Waste Treatment & Pollution Clean-up  
Keywords: Pseudomonas aureofaciens  
Keywords: CE gene  
Keywords: Liquid culture  
Keywords: Acids  
Keywords: Pesticides  
Keywords: Primers  
Keywords: Environmental conditions  
Keywords: G 07770:Bacteria  
Keywords: rRNA 16S English. Date revised - 2011-03-01. Last updated - 2013-01-25. DOI - 742c3c3a-021d-4d2c-9415mfgefd107; 14234911; 0923-9820; 1572-9729. SubjectsTermNotLitGenreText - Genomes; Biodegradation; Carboxylesterase; Enzymes; Malathion; Crops; Soil microorganisms; Soil; Carbon; CE gene; Liquid culture; Acids; Biochemical characteristics; Pesticides; Polymerase chain reaction; Primers; Environmental conditions; rRNA 16S; Acetobacter liquefaciens; Pseudomonas aureofaciens; Pseudomonas putida; Pseudomonas; Micrococcus

258. Goldner, W. S.; Sandler, D. P.; Yu, F.; Hoppin, J. A.; Kamel, F., and LeVan, T. D. Pesticide Use and Thyroid Disease Among Women in the Agricultural Health Study. 2010; 171, 455-464.   
Rec #: 13440  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Thyroid disease is common, and evidence of an association between organochlorine exposure and thyroid disease is increasing. The authors examined the cross-sectional association between ever use of organochlorines and risk of hypothyroidism and hyperthyroidism among female spouses (n = 16,529) in Iowa and North Carolina enrolled in the Agricultural Health Study in 1993-1997. They also assessed risk of thyroid disease in relation to ever use of herbicides, insecticides, fungicides, and fumigants. Prevalence of self-reported clinically diagnosed thyroid disease was 12.5%, and prevalence of hypothyroidism and hyperthyroidism was 6.9% and 2.1%, respectively. There was an increased odds of hypothyroidism with ever use of organochlorine insecticides (adjusted odds ratio (OR(adj)) = 1.2 (95% confidence interval (CI): 1.0, 1.6) and fungicides (OR(adj) = 1.4 (95% CI: 1.1, 1.8) but no association with ever use of herbicides, fumigants, organophosphates, pyrethroids, or carbamates. Specifically, ever use of the organochlorine chlordane (OR(adj) = 1.3 (95% CI: 0.99, 1.7), the fungicides benomyl (OR(adj) = 3.1 (95% CI: 1.9, 5.1) and maneb/mancozeb (OR(adj) = 2.2 (95% CI: 1.5, 3.3), and the herbicide paraquat (OR(adj) = 1.8 (95% CI: 1.1, 2.8) was significantly associated with hypothyroidism. Maneb/mancozeb was the only pesticide associated with both hyperthyroidism (OR(adj) = 2.3 (95% CI: 1.2, 4.4) and hypothyroidism. These data support a role of organochlorines, in addition to fungicides, in the etiology of thyroid disease among female spouses enrolled in the Agricultural Health Study.  
Number of Volumes: 4  
ISI Document Delivery No.: 553BY <Go to ISI>://CCC:000274340900008

259. Gonz+ílez-Curbelo, Miguel +üngel; Hern+índez-Borges, Javier; Ravelo-P+\_rez, Lidia M., and Rodr+¡guez-Delgado, Miguel +üngel. Insecticides extraction from banana leaves using a modified QuEChERS method. 2011 Apr 1-; 125, (3): 1083-1090.   
Rec #: 2010  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: An analytical method employing gas chromatography (GC) with nitrogenÇôphosphorus detection has been developed for the simultaneous determination of eight insecticides (seven organophosphorus pesticides: ethoprophos, diazinon, chlorpyrifos-methyl, fenitrothion, malathion, chlorpyrifos and fenamiphos, and one thiadiazine: buprofezin) in banana leaves that are currently being used to feed cattle or hogs. The extraction and preconcentration of these pesticides were carried out using a modified QuEChERS procedure and the whole method was validated in terms of repeatability, linearity, precision and accuracy. Triphenylphosphate was used as internal standard. Matrix effect evaluation was also carried out using a matrix matched calibration. The developed procedure gave satisfactory recovery (89Çô104%) and relative standard deviation values (&lt;9.1%) for the studied pesticides in banana leaves, while limits of detection ranged between 0.002 and 0.064 mg/kg. The method was finally applied to the determination of these pesticides in 12 treated banana leaves samples collected at different banana cultivars of the Canary Islands. Residues of chlorpyrifos were found in ten of these samples. Pesticide confirmation was carried out by GC with tandem mass spectrometry detection. QuEChERS/ Insecticides/ Banana leaves/ Gas chromatography/ NitrogenÇôphosphorus detection/ Tandem mass spectrometry http://www.sciencedirect.com/science/article/pii/S0308814610011866

260. Gonza!lez-Dashaz, Humberto; Prado-Prado, Francisco; Sobarzo-Sa!nchez, Eduardo; Haddad, Mohamed; Maurel Chevalley, Sacoverine; Valentin, Alexis; Quetin-Leclercq, Joa<Lle; Dea-Ayuela, Marasha a; Teresa Gomez-Mua-Os, Marasha; Munteanu, Cristian R; Josaco Torres-Labandeira, Juan; Garcasha-Mera, Xerardo; Tapia, Ricardo a; Ubeira, Florencio M, and Munteanu, Cristian R. Nl Mind-Best: a Web Server for Ligands and Proteins Discoveryatheoretic-Experimental Study of Proteins of Giardia Lamblia and New Compounds Active Against Plasmodium Falciparum. 2011 May 7; 276, (1): 229-249.   
Rec #: 6360  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: There are many protein ligands and/or drugs described with very different affinity to a large number of target proteins or receptors. In this work, we selected Ligands or Drug-target pairs (DTPs/nDTPs) of drugs with high affinity/non-affinity for different targets. Quantitative StructureaActivity Relationships (QSAR) models become a very useful tool in this context to substantially reduce time and resources consuming experiments. Unfortunately most QSAR models predict activity against only one protein target and/or have not been implemented in the form of public web server freely accessible online to the scientific community. To solve this problem, we developed here a multi-target QSAR (mt-QSAR) classifier using the MARCH-INSIDE technique to calculate structural parameters of drug and target plus one Artificial Neuronal Network (ANN) to seek the model. The best ANN model found is a Multi-Layer Perceptron (MLP) with profile MLP 20:20-15-1:1. This MLP classifies correctly 611 out of 678 DTPs (sensitivity=90.12%) and 3083 out of 3408 nDTPs (specificity=90.46%), corresponding to training accuracy=90.41%. The validation of the model was carried out by means of external predicting series. The model classifies correctly 310 out of 338 DTPs (sensitivity=91.72%) and 1527 out of 1674 nDTP (specificity=91.22%) in validation series, corresponding to total accuracy=91.30% for validation series (predictability). This model favorably compares with other ANN models developed in this work and Machine Learning classifiers published before to address the same problem in different aspects. We implemented the present model at web portal Bio-AIMS in the form of an online server called: Non-Linear MARCH-INSIDE Nested Drug-Bank Exploration & Screening Tool (NL MIND-BEST), which is located at URL: http://miaja.tic.udc.es/Bio-AIMS/NL-MIND-BEST.php. This online tool is based on PHP/HTML/Python and MARCH-INSIDE routines. Finally we illustrated two practical uses of this server with two different experiments. In experiment 1, we report by first time Quantum QSAR study, synthesis, characterization, and experimental assay of antiplasmodial and cytotoxic activities of oxoisoaporphine alkaloids derivatives as well as NL MIND-BEST prediction of potential target proteins. In experiment 2, we report sampling, parasite culture, sample preparation, 2-DE, MALDI-TOF, and -TOF/TOF MS, MASCOT search, MM/MD 3D structure modeling, and NL MIND-BEST prediction for different peptides a new protein of the found in the proteome of the human parasite Giardia lamblia, which is promising for anti-parasite drug-targets discovery.  
Keywords: Parasites  
Keywords: Neural networks  
Keywords: K 03400:Human Diseases  
Keywords: Giardia lamblia  
Keywords: Plasmodium falciparum  
Keywords: Microbiology Abstracts C: Algology, Mycology & Protozoology  
Keywords: Alkaloids  
Keywords: Cytotoxicity  
Keywords: Sampling  
Keywords: Learning algorithms  
Keywords: Antiprotozoal agents  
Keywords: Python  
Keywords: Drugs  
Keywords: Structure-activity relationships  
Keywords: Internet  
Keywords: Biology English. Date revised - 2011-10-01. Last updated - 2011-12-08. DOI - OB-14625b64-b093-4af9-90decsaobj201; 14604606; 0022-5193. SubjectsTermNotLitGenreText - Parasites; Cytotoxicity; Alkaloids; Neural networks; Antiprotozoal agents; Learning algorithms; Sampling; Drugs; Structure-activity relationships; Internet; Giardia lamblia; Plasmodium falciparum; Python

261. Gonzalez-Curbelo, Ma; Hernandez-Borges, J; Borges-Miquel, T M; Rodriguez-Delgado, Ma, and Gonzalez-Curbelo, MA. Determination of Pesticides and Their Metabolites in Processed Cereal Samples. 2012 Jan; 29, (1): 104-116.   
Rec #: 2920  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Fifteen pesticides including some of their metabolites (disulfoton sulfoxide, ethoprophos, cadusafos, dimethoate, terbufos, disulfoton, chlorpyrifos-methyl, malaoxon, fenitrothion, pirimiphos-methyl, malathion, chlorpyrifos, terbufos sulfone, disulfoton sulfone and fensulfothion) were analysed in milled toasted wheat and maize as well as in wheat flour and baby cereals. The QuEChERS (quick, easy, cheap, effective, rugged and safe) methodology was used and its dispersive solid-phase extraction procedure was optimised by means of an experimental design with the aim of reducing the amount of co-extracted lipids and obtaining a clean extract. Gas chromatography with nitrogen phosphorus detection were used as the separation and detection techniques, respectively. The method was validated in terms of selectivity, recoveries, calibration, precision and accuracy as well as matrix effects. Limits of detection were between 0.07 and 34.8 mu g kg-1 with recoveries in the range of 71-110% (relative standard deviations were below 9%). A total of 40 samples of different origin were analysed. Residues of pirimiphos-methyl were found in six of the samples at concentrations in the range 0.08-0.47 mg kg-1, which were below the MRLs established for this pesticide in cereal grains. Tandem mass spectrometry confirmation was also carried out in order to identify unequivocally the presence of this pesticide.  
Keywords: Risk Abstracts  
Keywords: Residues  
Keywords: Lipids  
Keywords: Metabolites  
Keywords: Chlorpyrifos  
Keywords: Triticum aestivum  
Keywords: Food additives  
Keywords: Zea mays  
Keywords: Economics  
Keywords: Pesticides  
Keywords: R2 23060:Medical and environmental health  
Keywords: Wheat  
Keywords: Nitrogen English. Date revised - 2012-09-01. Last updated - 2013-02-08. DOI - d9d1046b-f6e1-4501-ae26mfgefd107; 17032559; 1944-0049; 1944-0057. SubjectsTermNotLitGenreText - Chlorpyrifos; Food additives; Residues; Lipids; Economics; Pesticides; Metabolites; Wheat; Nitrogen; Triticum aestivum; Zea mays

262. Gonzalez-Rodriguez, R. M.; Rial-Otero, R.; Cancho-Grande, B.; Gonzalez-Barreiro, C., and Simal-Gandara, J. A Review on the Fate of Pesticides during the Processes within the Food-Production Chain. 2011; 51, 99-114.   
Rec #: 13480  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Only the intake of toxicologically-significant amounts can lead to adverse health effects even for a relatively toxic substance. In the case of residues in foods this is based on two major aspectsfirst, how to determine quantitatively the presence of a pollutant in individual foods and diets, including its fate during the processes within the food production chain; and second, how to determine the consumption patterns of the individual foods containing the relevant pollutants. The techniques used for the evaluation of the fate of pesticides during food processing have been critically reviewed in this paper to determine those areas where improvements are needed or desirable. Options for improvements are being suggested, including, for example, the development of a pan-European food composition database, activities to understand better effects of processing on individual food pesticides, and harmonization of food consumption survey methods with the option of a regular pan-European survey. The ultimate aim is to obtain appropriate estimations for the presence and quantity of a given chemical in a food and in the diet in general. Existing pragmatic approaches are a first crude step to model food pollutant intake. It is recommended to extend, refine, and validate this approach in the near future. This has to result in a cost-effective exposure-assessment system to be used for existing and potential categories of pollutants. This system of knowledge (with information on sensitivities, accuracy, etc.) will guide future data collection.  
Number of Volumes: 2  
ISI Document Delivery No.: 720XF <Go to ISI>://CCC:000287315300001

263. Guenard, G; Von Der Ohe, Pc; De Zwart, D; Legendre, P; Lek, S, and Guenard, G. Using Phylogenetic Information to Predict Species Tolerances to Toxic Chemicals. 2011 Dec; 21, (8): 3178-3190.   
Rec #: 6020  
Keywords: MODELING  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Tolerance to toxic substances is a characteristic of an organism that determines whether it is able to withstand the concentrations occurring in its environment. The measurement of tolerance is therefore of fundamental importance when assessing the impact of anthropogenic chemicals on ecosystems and ecological communities. Although an appreciable amount of information on species tolerance to chemicals has been collected through the last 50 years, substantial gaps remain in our knowledge of tolerance relative to the diversity of organisms inhabiting aquatic ecosystems and the great and increasing number of chemicals released in these ecosystems. Within that context, methods allowing one to reliably and accurately estimate a species' tolerance using other known characteristics would be valuable. In the present study we introduce an approach that uses phylogeny to estimate the tolerance of a species using that of a set of other species related to the focus species at different phylogenetic scales. We estimated phylogenies from molecular data (DNA sequences) or inferred them from taxonomy. Up to 83% of the among-species variation in tolerance (log-transformed median lethal concentration over 96 hours; LC sub(50)) was found to be phylogenetically structured and was therefore usable for making predictions. The ability of phylogenetic models to produce accurate estimates of species tolerances is apparently related to the availability of information within species groups and the variation in pesticide tolerance within these groups. Toxicity models integrating phylogeny therefore appear suitable to assist in risk assessment.  
Keywords: Phylogeny  
Keywords: Risk assessment  
Keywords: Data processing  
Keywords: G 07740:Evolution  
Keywords: Nucleotide sequence  
Keywords: Genetics Abstracts; Ecology Abstracts  
Keywords: Toxicity  
Keywords: Aquatic ecosystems  
Keywords: Environmental Studies  
Keywords: Models  
Keywords: Pesticides  
Keywords: Taxonomy  
Keywords: D 04060:Management and Conservation English. Date revised - 2012-04-01. Last updated - 2012-08-02. DOI - OB-MD-0018108877; 16292278; 1051-0761. SubjectsTermNotLitGenreText - Risk assessment; Phylogeny; Data processing; Nucleotide sequence; Pesticides; Taxonomy; Toxicity; Aquatic ecosystems; Models

264. Gunn, D. L. General Introduction: Some Environmental and Toxicological Perspectives. Part I: Uses and Abuse of DDT and Dieldrin. 17200//: SOIL; 1975: 82 p.   
Rec #: 600  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (DDVP,ES,MLN,RTN,TFN), NO REVIEW (DDVP,ES,MLN,RTN,TFN)  
Notes: Chemical of Concern: AND,DDT,DDVP,DLD,EN,EPRN,ES,HCCH,HPT,MLN,MXC,PPCP,PRN,RTN,TFN

265. Gunther, F. A.; Iwata, Y.; Carman, G. E., and Smith, C. A. The Citrus Reentry Problem: Research on Its Causes and Effects, and Approaches to Its Minimization. 1977; 67, 1-132.   
Rec #: 1310  
Keywords: REVIEW  
Call Number: NO REVIEW (AZ,DMT,DZ,MDT,MLN,MTM,MVP,Naled,PSM,TCF,TEPP)  
Notes: EcoReference No.: 36906  
Chemical of Concern: AZ,DEM,DMT,DZ,EPRN,ETN,MDT,MLN,MTM,MVP,Naled,PHSL,PPHD,PRN,PSM,TCF,TEPP

266. Guo, Peng; Wang, Baozhan; Hang, Baojian; Li, Lian; Ali, Shinawar Waseem; He, Jian; Li, Shunpeng, and Guo, Peng. Pyrethroid-Degrading Sphingobium Sp. Jz-2 and the Purification and Characterization of a Novel Pyrethroid Hydrolase. 2009 Dec; 63, (8): 1107-1112.   
Rec #: 7280  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A pyrethroid-degrading bacterium strain JZ-2 was isolated from activated sludge treating pyrethroid-manufacturing wastewater. Based on the morphological, physiological and biochemical characterization, and phylogenetic analysis of the 16S rRNA gene sequence, the strain was identified as Sphingobium sp. Strain JZ-2 was capable of degrading fenpropathrin, cypermethrin, permethrin, cyhalothrin, deltamethrin, fenvalerate and bifenthrin. This strain degraded fenpropathrin by hydrolysis of the carboxylester linkage to yield 3-phenoxybenzaldehyde and 2,2,3,3-tetramethylcyclopropanecarboxylic acid. 3-Phenoxybenzaldehyde, 3-phenoxybenzoate, protocatechuate and catechol are the intermediates of fenpropathrin degradation. Protocatechuate and catechol were further oxidized by ortho-cleavage pathway. A novel pyrethroid hydrolase from cell-free extract was purified 108.5-fold to apparent homogeneity with a 10.2% overall recovery. It was a monomer with a molecular mass of 31 +/- 1 kDa, a pI of 4.85. The optimal pH and temperature were 7.5 and 40 C, respectively. No cofactors or coenzymes were required for the pyrethroid-hydrolysis activity. The enzyme was strongly inhibited by many irons (Ag super(+), Cu super(2+), Hg super(2+) and Zn super(2+)), SDS, p-chloromercuribenzoic acid, phenylmethylsulfonyl fluoride and malathion.  
Keywords: Microbiology Abstracts A: Industrial & Applied Microbiology; Environment Abstracts; Water Resources Abstracts  
Keywords: Biology English. Date revised - 2011-02-01. Last updated - 2011-11-08. DOI - OB-5923195e-a140-4d06-a320csaobj202; 13403924; 0964-8305

267. Guo, Wen; Engelman, Brigitte J; Haywood, Tajay L; Blok, Neil B; Beaudoin, Daniel S, and Obare, Sherine O. Dual Fluorescence and Electrochemical Detection of the Organophosphorus Pesticides--Ethion, Malathion and Fenthion. 2011 Dec 15; 87, 276-283.   
Rec #: 2960  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organophosphorus (OP) based pesticides are known powerful inhibitors of cholinesterases, thus the toxicity of this class of compounds causes serious environmental and human health concerns. We report that benzodipyrido[3,2-a:2',3'-c]phenazine (BDPPZ) and 3,6-dimethylbenzodipyrido-[3,2-a:2',3'-c]phenazine (DM-BDPPZ) provide independent fluorescent and electrochemical signal transductions in the presence of the organophosphorus (OP) pesticides; fenthion, malathion and ethion. The presence of the methyl groups at the 3 and 6 positions in DM-BDPPZ was found to significantly influence the sensor performance. The difference in the fluorescence and electrochemical signals produced by the interaction of the sensor compound with each of the OP pesticides provides a means for differentiating between the three pesticides. Detection limits of 10(-8)M, 10(-9) and 10(-12)M were obtained for fenthion, malathion and ethion, respectively. Due to the high sensitivity and ability to minimize false positives these new sensors will be useful for potential integration for future environmental use. Copyright Â© 2011 Elsevier B.V. All rights reserved.  
Keywords: Pesticides -- analysis  
Keywords: Sensitivity and Specificity  
Keywords: Organothiophosphorus Compounds  
Keywords: 2TI07NO12Y  
Keywords: Electrochemical Techniques -- methods  
Keywords: Index Medicus  
Keywords: Fenthion  
Keywords: Fenthion -- analysis  
Keywords: Malathion  
Keywords: ethion  
Keywords: Cholinesterase Inhibitors  
Keywords: 0  
Keywords: Spectrometry, Fluorescence -- methods  
Keywords: Phenazines  
Keywords: 55-38-9  
Keywords: Cholinesterase Inhibitors -- analysis  
Keywords: Malathion -- analysis  
Keywords: benzodipyrido(3,2-a-2',3'-c)phenazine  
Keywords: Pesticides  
Keywords: Phenazines -- chemistry  
Keywords: Organothiophosphorus Compounds -- analysis  
Keywords: 121-75-5 eng. Date completed - 2012-03-19. Date created - 2011-11-21. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-22099679; 22099679; 1873-3573

268. Gupta, P.; Saxena, G., and Kumar, A. Effect of Malathion on Reproductive Performance of Drosophila kikkawai in Agricultural Field. Genetics and Molecular Biology Lab., Department of Zoology, Feroze Gandhi College, Raebareli - 229 001, India//: 2011; 14, (1): 55-58(ABS).   
Rec #: 1520  
Keywords: ABSTRACT  
Call Number: NO ABSTRACT (MLN)  
Notes: Chemical of Concern: MLN

269. Gupta, Ramesh C. Chapter 80 - Placental toxicity. Ramesh C. Gupta. Reproductive and Developmental Toxicology. San Diego: Academic Press; 2011: 1067-1085.   
Rec #: 1540  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Publisher Summary ISSN/ISBN: 978-0-12-382032-7 http://www.sciencedirect.com/science/article/pii/B9780123820327100803

270. Gupta, Ramesh C. and Crissman, James W. Chapter 42 - Agricultural Chemicals. Wanda M. Haschek; Colin G. Rousseaux; Matthew A. Wallig; Brad Bolon and Ricardo OchoaA2 - Wanda M. Haschek, Colin G. Rousseaux Matthew A. Wallig Brad Bolon, and Ricardo Ochoa. Haschek and Rousseaux's Handbook of Toxicologic Pathology (Third Edition). Boston: Academic Press; 2013: 1349-1372.   
Rec #: 1520  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract ISSN/ISBN: 978-0-12-415759-0 pesticide/ herbicide/ fungicide/ insecticide/ rodenticide/ toxicity/ pathology/ risk/ treatment/ prevention/ poisoning/ agriculture http://www.sciencedirect.com/science/article/pii/B978012415759000042X

271. Gupta, Ramesh C.; Malik, Jitendra K., and Milatovic, Dejan. Chapter 37 - Organophosphate and carbamate pesticides. Ramesh C. Gupta. Reproductive and Developmental Toxicology. San Diego: Academic Press; 2011: 471-486.   
Rec #: 880  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Publisher Summary ISSN/ISBN: 978-0-12-382032-7 http://www.sciencedirect.com/science/article/pii/B9780123820327100372

272. Gupta, Ramesh C. and Milatovic, Dejan. Chapter 45 - Organophosphates and carbamates. Veterinary Toxicology (Second Edition). Boston: Academic Press; 2012: 573-585.   
Rec #: 1040  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Organophosphate (OP) and carbamate (CM) compounds are commonly used as pesticides in agriculture, industry and in homes and gardens. These compounds are also used as parasiticides in veterinary medicine. In addition, some OPs are employed as chemical warfare agents. Both OPs and CMs exert their toxicity by inhibiting acetylcholinesterase (AChE) activity primarily in the brain and muscles, leading into accumulation of acetylcholine causing hypercholinergic signs due to overstimulation of muscarinic and nicotinic receptors. In addition, non-cholinergic mechanisms are involved in cell damage and death. Death of an animal ensues due to respiratory and cardiac failure. Acute poisoning cases are diagnosed based on (1) clinical signs, (2) AChE activity in blood/brain and (3) the residue detection of OPs/CMs. Animals poisoned with CMs are treated with atropine and those poisoned with OPs are treated with atropine and 2-PAM. This chapter describes the toxicity and treatment of anticholinesterase OPs and CMs in animals. ISSN/ISBN: 978-0-12-385926-6 http://www.sciencedirect.com/science/article/pii/B9780123859266000454

273. Gustafsson, Helena; Runesson, Johan; Lundqvist, Jessica; Lindegren, Helene; Axelsson, Viktoria; Forsby, Anna, and Gustafsson, Helena. Neurofunctional Endpoints Assessed in Human Neuroblastoma Sh-Sy5y Cells for Estimation of Acute Systemic Toxicity. 2010 Jun 1; 245, (2): 191-202.   
Rec #: 7000  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The objective of the EU-funded integrated project ACuteTox is to develop a strategy in which general cytotoxicity, together with organ-specific toxicity and biokinetic features, are used for the estimation of human acute systemic toxicity. Our role in the project is to characterise the effect of reference chemicals with regard to neurotoxicity. We studied cell membrane potential (CMP), noradrenalin (NA) uptake, acetylcholine esterase (AChE) activity, acetylcholine receptor (AChR) signalling and voltage-operated calcium channel (VOCC) function in human neuroblastoma SH-SY5Y cells after exposure to 23 pharmaceuticals, pesticides or industrial chemicals. Neurotoxic alert chemicals were identified by comparing the obtained data with cytotoxicity data from the neutral red uptake assay in 3T3 mouse fibroblasts. Furthermore, neurotoxic concentrations were correlated with estimated human lethal blood concentrations (LC50). The CMP assay was the most sensitive assay, identifying eight chemicals as neurotoxic alerts and improving the LC50 correlation for nicotine, lindane, atropine and methadone. The NA uptake assay identified five neurotoxic alert chemicals and improved the LC50 correlation for atropine, diazepam, verapamil and methadone. The AChE, AChR and VOCC assays showed limited potential for detection of acute toxicity. The CMP assay was further evaluated by testing 36 additional reference chemicals. Five neurotoxic alert chemicals were generated and orphendrine and amitriptyline showed improved LC50 correlation. Due to the high sensitivity and the simplicity of the test protocol, the CMP assay constitutes a good candidate assay to be included in an in vitro test strategy for prediction of acute systemic toxicity.  
Keywords: Chemicals  
Keywords: acute toxicity  
Keywords: esterase  
Keywords: Acute toxicity  
Keywords: Fibroblasts  
Keywords: X 24380:Social Poisons & Drug Abuse  
Keywords: Cell membranes  
Keywords: Nicotine  
Keywords: Calcium channels  
Keywords: Sensitivity  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Data processing  
Keywords: Pharmacy And Pharmacology  
Keywords: Diazepam  
Keywords: Lindane  
Keywords: Toxicity  
Keywords: Acetylcholine receptors  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Methadone  
Keywords: Blood  
Keywords: Cytotoxicity  
Keywords: Verapamil  
Keywords: Neurotoxicity  
Keywords: Pesticides  
Keywords: Amitriptyline  
Keywords: Pharmaceuticals  
Keywords: Atropine English. Date revised - 2011-10-01. Last updated - 2011-12-13. DOI - OB-4b5087ab-3676-4ae7-ac49csaobj202; 13199695; 0041-008X. SubjectsTermNotLitGenreText - Data processing; esterase; Diazepam; Lindane; Acute toxicity; Acetylcholine receptors; Fibroblasts; Blood; Methadone; Cytotoxicity; Verapamil; Cell membranes; Nicotine; Pesticides; Neurotoxicity; Calcium channels; Amitriptyline; Pharmaceuticals; Atropine; Chemicals; acute toxicity; Sensitivity; Toxicity

274. Hagner, M.; Penttinen, O. P.; Pasanen, T.; Tiilikkala, K., and Setala, H. Acute toxicity of birch tar oil on aquatic organisms. 2010; 19, 24-32.   
Rec #: 13570  
Keywords: BIOLOGICAL TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Birch tar oil (BTO) is a by-product of processing birch wood in a pyrolysis system. Accumulating evidence suggests the suitability of BTO as a biocide or repellent in terrestrial environments for the control of weeds, insects, molluscs and rodents. Once applied as biocide, BTO may end up, either through run-off or leaching, in aquatic systems and may have adverse effects on non-target organisms. As very little is known about the toxicity of BTO to aquatic organisms, the present study investigated acute toxicity (LC(50)/EC(50)) of BTO for eight aquatic organisms. Bioassays with the Asellus aquaticus (crustacean), Lumbriculus variegatus (oligochaeta worm), Daphnia magna (crustacean), Lymnea sp. (mollusc), Lemna minor (vascular plant), Danio rerio (fish), Scenedesmus gracilis (algae), and Vibrio fischeri (bacterium) were performed according to ISO, OECD or USEPA-guidelines. The results indicated that BTO was practically nontoxic to most aquatic organisms as the median effective BTO concentrations against most organisms were > 150 mg l(-1). In conclusion, our toxicity tests showed that aquatic organisms are to some extent, invariably sensitive to birch tar oil, but suggest that BTO does not pose a severe hazard to aquatic biota. We deduce that, unless BTOs are not applied in the immediate vicinity of water bodies, no special precaution is required.  
Number of Volumes: 1  
ISI Document Delivery No.: 649OT <Go to ISI>://CCC:000281782500003

275. Hall, April A. and Lee, Cindy M. Sorption and Enantiomerization of Current Use Chiral Pesticides. 2012.  
Rec #: 7980  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Chiral pesticides are prevalent in the environment today and are known to react selectively with chiral environmental components such as microbes, enzymes, and other naturally occurring chiral materials. In addition, chiral sorption is a process that has been occasionally investigated in the study of homochirality (the exclusive presence of one enantiomer in living organisms), but almost overlooked in environmental science. For chiral sorption to occur, the sorbent and sorbate must be chiral entities. In the environment, there are abundant natural surfaces that are chiral, including clay minerals and organic matter present in soil, sediment and aqueous solution. A knowledge of isomerization, including the special case of enantiomerization, of chiral pesticides is also crucial in understanding the fate of these chiral pollutants, especially for pesticides marketed as a "chiral switch":, i.e. formulations containing only or mostly the active enantiomer. The goal of this research was to provide more insight into sorption and enantiomerization of chiral pesticides in the presence of mineral surfaces. Sorption experiments with malathion and metalaxyl and selected minerals, along with their individual enantiomers, were conducted and results analyzed by achiral and chiral high performance liquid chromatography (HPLC). Investigation with racemic malathion resulted in significant sorption to all sorbents, with the exception of the negligible sorption to kaolinite. Sorption was fit to the Freundlich model, with n2hr > 1 for bentonite, calcite, and montmorillonite while the biotic solids diatomaceous earth and seashells had n2hr < 1. KF,2hr values indicated decreasing sorption capacity in the order montmorillonite, bentonite, calcite, seashells, and diatomaceous earth. Chiral analysis indicated nonenantioselective sorption for malathion, which exhibited racemic enantiomeric fractions (EFs) for all sorbents. Sorption of the individual enantiomers of malathion, R -(+)- and S -(-)-malathion, resulted in enantiomerization to racemic EFs after contact with the mineral sorbents. Adding malathion enantiomers to minerals and analyzing the aqueous phase after 15 min of centrifugation resulted in enantiomerization to racemic EF values for R -(+)-malathion, but only partial enantiomerization of S -(-)-malathion. Malathion enantiomers also decreased or increased in EF for controls containing either only water or Î˛-cyclodextrin, but enantiomerization to the racemate was not complete after two hours. It was hypothesized that malathion is undergoing proton exchange with the mineral surfaces causing enantiomerization. Construction of sorption isotherms revealed that the racemate and enantiomers have different isotherm shapes, possibly indicating different sorption mechanisms. Sorption was fit to the Freundlich model, with n2hr being statistically different for the racemate and S -(-)-malathion and R -(+)- and S -(-)-malathion with bentonite, but not for calcite and montmorillonite. KF,2hr values were not significantly different for the racemate and enantiomers for bentonite, calcite, or montmorillonite, suggesting that the minerals had the same sorption capacity for the racemate or enantiomers. Racemic metalaxyl and metalaxyl-M (consisting of 97% R -(-)-metalaxyl and 3% S -(+)-metalaxyl) were found to sorb to bentonite and montmorillonite, but sorption to calcite and kaolinite was not apparent. Sorption was fit to the Freundlich model with n > 1 and KF indicating that bentonite had a higher sorption capacity than montmorillonite. Sorption of R -(-)-metalaxyl from metalaxyl-M was greater than racemic metalaxyl for both sorbents, but S -(+)-metalaxyl sorption was the greatest overall after consideration of the small amount of S -(+)-metalaxyl present in metalaxyl-M. Chiral analysis indicated that sorption of racemic metalaxyl was nonenantioselective with racemic EFs. However, sorption of metalaxyl-M resulted in an increase of EF with bentonite and montmorillonite indicating the possibility of enantioselective sorption. Solution EFs also increased for calcite, and at one concentration level EF decreased for kaolinite, suggesting that enantiomerization is occurring for metalaxyl-M when in contact with these sorbents, since sorption on calcite and kaolinite was not observed. Although enantiomerization of chiral pesticides has been observed during degradation and in aprotic solvents, this research presents the first evidence of enantiomerization during sorption for two current-use chiral pesticides. The rapid enantiomerization of malathion and the enantiomerization and possible enantioselective sorption of metalaxyl to mineral surfaces questions the efficacy of using a chiral switch for these two pesticides. This research substantiates the need for enantiomer specific sorption analysis for chiral pesticides to understand their fate and effects in the environment.  
Start Page: 214  
ISSN/ISBN: 9781267872074  
Keywords: 0768:Environmental science  
Keywords: Sorption  
Keywords: Chemistry  
Keywords: Enantiomerization  
Keywords: 0485:Chemistry  
Keywords: Environmental science  
Keywords: Pesticides  
Keywords: Health and environmental sciences  
Keywords: Chirality  
Keywords: Pure sciences  
Keywords: Enantioselective English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2012. Last updated - 2013-05-02. DOI - 2885972421; 70396032; 66569; 9781267872074; 3550232. First page - n/a

276. Hama, H. Insecticide Resistance of Diamondback Moth, Plutella xylostella in Japan. 1990; 24, (1): 22-30.   
Rec #: 130  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ACP,CBL,CPY,CPYM,DDVP,DMT,DZ,FNT,FNV,MDT,MLN,MOM,PFF,PIRM,SMT,TCF), NO REVIEW (ACP,CBL,CPY,CPYM,DDVP,DMT,DZ,FNT,FNV,MDT,MLN,MOM,PFF,PIRM,SMT,TCF)  
Notes: Chemical of Concern: ACP,CBL,CPY,CPYM,DDVP,DMT,DZ,FNT,FNV,MDT,MLN,MOM,PFF,PIRM,SMT,TCF

277. Han, Shitong; Li, Jing; Xi, Hailing; Xu, Danian; Zuo, Yanjun; Zhang, Jianhong, and Han, Shitong. Photocatalytic Decomposition of Acephate in Irradiated Tio2 Suspensions. 2009; 163, (2-3): 1165-1172.   
Rec #: 7670  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In the present study, the photocatalytic degradation of acephate (O,S-dimethyl acetyl phosphoramidothioate ((CH3O)(CH3S)P(O)NHCOCH3)) in aqueous TiO2 suspensions is extensively investigated, pertaining to the concentration of photocatalyst and substrate on degradation rate of acephate. It is found that the acephate can be degradated and mineralized. The high-degradation rate is obtained with 4 g/L concentration of TiO2. Moreover, Langmuir-Hinshelowood rate expression is employed for the degradation of acephate with adsorption constant and rate constant, i.e., 2.0 L/mmol and 0.6 mmol/(min L), respectively. The main target is to identify the products by a number of analytical techniques, such as HPLC, IC, ESR and GC-MS. Under acidic condition, the primary products are phosphorothioic acid, O,O',S-trimethyl ester (CH3O(CH3S)P(O)OCH3) and phosphoramidothioic acid, O,S-dimethyl ester (CH3O(CH3S)P(O)NH2), etc. It indicates that the decomposition of acephate begin from the destruction of C-N and P-N bonds. Subsequently, the P-S, P-O, P-C bonds may be oxidized gradually or simultaneously, and the final products such as CO2, H3PO4, were formed. About 100% sulfur atoms are transformed into SO42- in 180 min, however; only 3% nitrogen atoms and 2% phosphorus atoms were transformed into NO3- and PO43-.  
Keywords: 31: Pollution, Conservation, and Health Management (CE)  
Keywords: Engineering--Chemical Engineering  
Keywords: Civil Engineering (CE)  
Keywords: Article English. Date revised - 2009-10-01. Last updated - 2011-11-08. DOI - OB-OH-0006692062; 200904-31-0061801 (CE); 0304-3894

278. Hanzal, R. F.; Horn, H. J., and Hazelton, L. W. Anticholinesterase Activity of Parathion and Malathion. 1954; 13, (1): 363-364(ABS).   
Rec #: 610  
Keywords: NOT PURSUING,ABSTRACT  
Call Number: NO ABSTRACT (MLN)  
Notes: Chemical of Concern: MLN

279. Hardman, J. M.; Jensen, K. I. N.; Franklin, J. L., and Moreau, D. L. Effects of Dispersal, Predators (Acari: Phytoseiidae), Weather, and Ground Cover Treatments on Populations of Tetranychus urticae (Acari: Tetranychidae) in Apple Orchards. 1998; 98, (3): 862-874.   
Rec #: 1080  
Keywords: MIXTURE  
Call Number: NO MIXTURE (ALSV,AZ,BMY,CBL,CTZ,CYP,Captan,Conazoles,DMT,ES,IMC,LCYT,MEM,MLN,MYC,MZB,NNCT,PRB,PSM,TUZ)  
Notes: Chemical of Concern: ABM,ALSV,AZ,BMY,CBL,CTZ,CYP,Captan,Conazoles,DMT,ES,FUZ,IMC,KRSM,LCYT,MEM,MLN,MYC,MZB,PHSL,PIM,PRB,PSM,TUZ,Zineb

280. Hardstone, Melissa C. and Scott, Jeffrey G. A review of the interactions between multiple insecticide resistance loci: Special Issue: Insecticidal Action. 2010 Jun; 97, (2): 123-128.   
Rec #: 1130  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Insecticide resistance is an ever escalating problem worldwide in many pest populations and numerous cases of insecticide resistance are polygenic. Therefore, it is important to investigate the types of interactions that occur between insecticide resistance loci as this will dictate the level of resistance (and effectiveness of a chemical control strategy). Interactions also play a role in the evolution and/or maintenance of multigenic resistance in the field. Given that a limited number of mechanisms confer resistance, it might be possible to establish general rules for interactions between mechanisms. Several variables might dictate the type of interaction, such as the nature of the resistance mechanisms, genotype, etc. Interactions can be synergistic, antagonistic or additive. Based on this literature review, the most common interaction of multiple homozygous resistance loci is synergistic and additive when loci are heterozygous. When one locus is homozygous and the other locus is heterozygous the most common interaction was synergistic, although very few studies have examined this type of interaction. Possible factors that drive these interactions, exceptions to the trends, and future research needs are discussed. Insecticide resistance/ Epistasis/ Evolution/ Gene interaction/ Insecta http://www.sciencedirect.com/science/article/pii/S0048357509001035

281. Hart, Elizabeth; Coscolla, Clara; Pastor, Agustin; Yusa, Vicent, and Hart, Elizabeth. Gc-Ms Characterization of Contemporary Pesticides in Pm10 of Valencia Region, Spain. 2012 Dec; 62, 118-129.   
Rec #: 5530  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Better knowledge of the occurrence of pesticides in the inhalable fraction of particulate matter (PM10) could be very useful for future exposure assessment in individuals of the general public. The present work studies the spatial and temporal distribution of the occurrence of currently used pesticides (CUPs) in PM10. Ambient air samples were collected from January through December 2010 at one remote, one urban and three rural sites in Valencia Region (Spain) and analyzed for 42 CUPs using a gas chromatography coupled to mass spectrometry in tandem (GC-MS/MS) approach. Overall, 24 pesticides were detected in the PM10 fraction, four of them currently banned pesticides. Among those detected, concentrations of two particle-bound pesticides (permethrin and pyrimethanil) were, to our knowledge, reported for the first time in air in the literature. The detected pesticides appeared at frequencies ranging from <1 to 47%, with chlorpyrifos, bifenthrin and diazinon presenting the highest frequencies. The concentrations detected ranged from a few to several hundred pg m-3, with ethoprophos showing the highest average concentration (149.2 pg m-3). Each station shows its own specific pesticide profile, which is linked to the different types of crops around each site. Seasonal patterns were observed in the rural stations of Alzira and Sant Jordi, correlating pesticide detection with their application in agricultural practices, mostly in spring and early summer. These findings suggest that more efforts are required to implement an extensive air monitoring network in Europe for pesticide control and to develop regulations or recommendations regarding pesticide levels in ambient air.  
Keywords: Pesticide control  
Keywords: Atmospheric pollution  
Keywords: Temporal distribution  
Keywords: P 0000:AIR POLLUTION  
Keywords: Spain  
Keywords: Permethrin  
Keywords: Mass spectrometry  
Keywords: Particulate matter in urban air  
Keywords: Particulates  
Keywords: Atmospheric circulation-oceanic circulation coupled models  
Keywords: Environmental Studies  
Keywords: Chlorpyrifos  
Keywords: M2 551.510.42:Air Pollution (551.510.42)  
Keywords: Gas chromatography  
Keywords: Pollution Abstracts; Environment Abstracts; Meteorological & Geoastrophysical Abstracts  
Keywords: Pesticides  
Keywords: Spain, Valencia  
Keywords: Air sampling  
Keywords: Urban atmospheric pollution  
Keywords: Diazinon  
Keywords: ENA 01:Air Pollution  
Keywords: Rural areas  
Keywords: Urban areas English. Date revised - 2013-03-01. Last updated - 2013-03-21. DOI - OB-ecc06bfa-23fc-40f9-8028csamfg201; 17593531; 1352-2310. SubjectsTermNotLitGenreText - Pesticide control; Atmospheric pollution; Gas chromatography; Mass spectrometry; Urban atmospheric pollution; Particulate matter in urban air; Atmospheric circulation-oceanic circulation coupled models; Chlorpyrifos; Temporal distribution; Pesticides; Air sampling; Permethrin; Particulates; Diazinon; Urban areas; Rural areas; Spain; Spain, Valencia

282. Haseman, J. K.; Huff, J. E.; Zeiger, E., and McConnell, E. E. Comparative Results of 327 Chemical Carcinogenicity Studies. 1987; 74, 229-235.   
Rec #: 140  
Keywords: PUBL AS  
Call Number: NO PUBL AS (12DPE,13DPE,ADC,AMSV,ASCN,AZ,BRA3,CLP,CMPH,CQTC,CTN,CaCY,Captan,DCB,DCF,DDVP,DLMEN,DMT,DMZ,DPDP,DZ,EGL,ES,MBTZ,MEL,MLN,MLO,MP,OXTH,PNB,PPB,PPO,RTN,TFN,TVP,Ziram)  
Notes: Chemical of Concern: 12DPE,13DPE,3CE,4CE,ADC,AMSV,AND,ANZ,APC,ASCN,AZ,BNZ,BPA,BRA3,CHD,CLP,CMPH,CQTC,CTN,CaCY,Captan,DCB,DCF,DDE,DDT,DDVP,DLD,DLMEN,DMBA,DMT,DMZ,DPDP,DXN,DZ,EAC,EDB,EGL,EN,EPRN,ES,ETO,FMU,FNTH,HCCH,HPT,ISO,MBTZ,MEL,MLN,MLO,MP,MRX,MXC,OPHP,OXTH,PBDE,PCB,PCL,PHTH,PL,PNB,PPB,PPCP,PPCP2011,PPHD,PPO,PRN,RTN,TCDD,TFN,TPTH,TVP,TXP,Ziram

283. Hassan, V; Arash, R; Mehdi, J; Ahmad, R; Ali, H-Ba; Wali, Ya ; Ali, D; Rasool, Ma; Abbas, P, and Hassan, V. Demonstration of Malaria Situation Analysis, Stratification and Planning in Minab District, Southern Iran. 2011 Jan(1): 67-71.   
Rec #: 6630  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Objective: To demonstrate malaria situation analysis, stratification and planning for an endemic area in southern Iran. Methods: Data on health system, population, meteorological parameters, malaria cases, anopheline vectors, and control activities during 2005-2007 was obtained from Minab Health Center, Minab Meteorological Station and published documents about malaria elements in the study area. A datasheet was created in excel 2003 for analysis. Results: There were 644 health staff working in Minab District including 99 health staff in malaria control program. The health facilities are distributed as follow: 1 hospital with 96 beds, 23 health centers including private centers (10 in Minab city and 13 in rural area of Minab District) and 119 health houses in rural areas of Minab District. Anopheles stephensi was the dominant species in Minab District, however, Anopheles dthali, Anopheles superpictus, Anopheles fluviatilis, Anopheles multicolor, Anopheles pulcherrimus and Anopheles turkhudi can also be found in the area. Anopheles stephensi was reported susceptible to malathion, propoxur, primphos-methyl, lambda-cyhalothrin permethrin and deltamethrin, and resistant to DDT and dieldrin in the area. During the study period a total of 10 665 positive cases were reported, mainly due to local transmission (99.6%). Plasmodium vivax was the main causative agent followed by Plasmodium falciparum. There were reports about drug resistance of Plasmodium falciparum in the area. Conclusions: Using different parameters, Minab was classified into 3 strata. A plan was designed based on described goal, objectives and targets. The approaches of this plan were categorized into: health education, early detection and correct treatment, and vector control. Main constraints of these approaches are population movement between Iran, Pakistan and Afghanistan; vector control challenges at district, inadequate skilled medical staff in malaria case management and weak inter-sectorial coordination for malaria control, especially in urban areas.  
Keywords: Q5 01503:Characteristics, behavior and fate  
Keywords: Parasites  
Keywords: Iran  
Keywords: Human diseases  
Keywords: Drug resistance  
Keywords: K 03400:Human Diseases  
Keywords: Anopheles stephensi  
Keywords: Malaria  
Keywords: Plasmodium vivax  
Keywords: Afghanistan  
Keywords: Deltamethrin  
Keywords: Malathion  
Keywords: Disease transmission  
Keywords: Public health  
Keywords: Endemic species  
Keywords: ASFA 3: Aquatic Pollution & Environmental Quality; ASFA 1: Biological Sciences & Living Resources; Entomology Abstracts; Microbiology Abstracts C: Algology, Mycology & Protozoology  
Keywords: Aquatic insects  
Keywords: Houses  
Keywords: Pakistan  
Keywords: Data processing  
Keywords: Control programs  
Keywords: Dieldrin  
Keywords: Z 05350:Medical, Veterinary, and Agricultural Entomology  
Keywords: Permethrin  
Keywords: Vectors  
Keywords: Pest control  
Keywords: Plasmodium falciparum  
Keywords: ISW, Iran  
Keywords: Education  
Keywords: DDT  
Keywords: Anopheles fluviatilis  
Keywords: Q1 01484:Species interactions: parasites and diseases  
Keywords: Hospitals English. Date revised - 2011-07-01. Last updated - 2013-05-06. DOI - MD-0016456424; 14972815; 1995-7645. SubjectsTermNotLitGenreText - Parasites; Education; Endemic species; Human diseases; DDT; Malaria; Pest control; Aquatic insects; Public health; Houses; Data processing; Control programs; Drug resistance; Dieldrin; Vectors; Permethrin; Deltamethrin; Malathion; Disease transmission; Hospitals; Anopheles stephensi; Plasmodium vivax; Anopheles fluviatilis; Plasmodium falciparum; Iran; Pakistan; Afghanistan; ISW, Iran

284. Hassanzadeh, N.; Bahramifar, N., and Esmaili-Sari, A. Residue content of carbaryl applied on greenhouse cucumbers and its reduction by duration of a pre-harvest interval and post-harvest household processing. 2010; 90, 2249-2253.   
Rec #: 13640  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: BACKGROUND: Carbaryl is widely used to control various insect pests on greenhouse cucumbers in Iran. Therefore the control of residual levels of this insecticide is highly necessary. The effects of the household processing such as washing, peeling and refrigeration storage, at 4 degrees C for 2 days on the reduction of residue levels in the plant tissues were investigated in the different groups. Samples were collected at 1 h to 14 days after application and analysed to determine the content and dissipation rate of carbaryl. Analysis was carried out by the QuEChERS method using HPLC-UV. RESULTS: Carbaryl residue in samples, which were collected post-application in different times showed a gradual and significant (P < 0.05) decrease. The half-life (t(1/2)) of carbaryl applied on cucumbers was 3.2 days. Carbaryl residues were detected in concentration ranges of 0.22-4.91 mg kg(-1). Also, the results indicated that the consumable safety time of carbaryl was found to be more than 14 days on cucumber. CONCLUSION: Household processing, such as washing and peeling and refrigeration storage, was effective in reducing the residue levels. Also, peeling was the most effective way to reduce the carbaryl residues of the cucumber samples. Washing and refrigerated storage also decreased carbaryl residues. (C) 2010 Society of Chemical Industry  
Number of Volumes: 13  
ISI Document Delivery No.: 660TK <Go to ISI>://CCC:000282667500015

285. Hayes, T. B.; Falso, P.; Gallipeau, S., and Stice, M. The Cause of Global Amphibiam Declines: A Developmental Endocrinologist''s Perspective. 2010; 213, 921-933.   
Rec #: 1460  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ADC,ATZ,ES,MLN), NO REVIEW (ADC,ATZ,ES,MLN)  
Notes: Chemical of Concern: ADC,ATZ,DDE,DDT,DLD,ES,HCCH,MBZ,MLN,PPCP

286. He, Ping; Davies, Joanna; Greenway, Gillian, and Haswell, Stephen J. Measurement of acetylcholinesterase inhibition using bienzymes immobilized monolith micro-reactor with integrated electrochemical detection. 2010 Feb 5-; 659, (1Çô2): 9-14.   
Rec #: 750  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: This paper reports a simple ++-FIA based method for the rapid evaluation of acetylcholinesterase inhibition based on bienzymes immobilized monolith micro-reactor, with integrated electrochemical detection. The monolith was prepared inside a micro-fluidic device from two precursors TMOS and MTMOS using a solÇôgel method, followed by PEI polymer functionalization and subsequent enzyme immobilization via electrostatic attraction between electronegative enzymes and electropositive PEI polymers. A bienzyme system containing co-immobilized acetylcholinesterase and choline oxidase was used for the evaluation of enzyme inhibition induced by malaoxon, eserine and methomyl analytes. The proposed method, which gave a LOD of 0.5, 0.2 and 1.0 ++M for malaoxon, eserine and methomyl repeatedly, was found to offer several advantages over existing systems including efficient enzyme immobilization, minimal reagent consumption and rapid analysis capability. Micro-reactor/ Immobilized enzymes/ Monolith/ Acetycholinesterase/ Enzyme inhibition/ Pesticides/ Electrochemical detection http://www.sciencedirect.com/science/article/pii/S0003267009015633

287. Heltshe, Sonya L; Lubin, Jay H; Koutros, Stella; Coble, Joseph B; Ji, Bu-Tian; Alavanja, Michael C R; Blair, Aaron; Sandler, Dale P; Hines, Cynthia J; Thomas, Kent W; Barker, Joseph; Andreotti, Gabriella; Hoppin, Jane a; Beane Freeman, Laura E, and Heltshe, Sonya L. Using Multiple Imputation to Assign Pesticide Use for Non-Responders in the Follow-up Questionnaire in the Agricultural Health Study. 2012 Jul; 22, (4): 409-416.   
Rec #: 5700  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The Agricultural Health Study (AHS), a large prospective cohort, was designed to elucidate associations between pesticide use and other agricultural exposures and health outcomes. The cohort includes 57,310 pesticide applicators who were enrolled between 1993 and 1997 in Iowa and North Carolina. A follow-up questionnaire administered 5 years later was completed by 36,342 (63%) of the original participants. Missing pesticide use information from participants who did not complete the second questionnaire impedes both long-term pesticide exposure estimation and statistical inference of risk for health outcomes. Logistic regression and stratified sampling were used to impute key variables related to the use of specific pesticides for 20,968 applicators who did not complete the second questionnaire. To assess the imputation procedure, a 20% random sample of participants was withheld for comparison. The observed and imputed prevalence of any pesticide use in the holdout dataset were 85.7% and 85.3%, respectively. The distribution of prevalence and days/year of use for specific pesticides were similar across observed and imputed in the holdout sample. When appropriately implemented, multiple imputation can reduce bias and increase precision and can be more valid than other missing data approaches.  
Keywords: Inventories  
Keywords: USA, North Carolina  
Keywords: Statistics  
Keywords: Data processing  
Keywords: USA, Iowa  
Keywords: H 5000:Pesticides  
Keywords: Health & Safety Science Abstracts; Risk Abstracts; Toxicology Abstracts  
Keywords: Pesticides  
Keywords: R2 23060:Medical and environmental health  
Keywords: Sampling  
Keywords: X 24330:Agrochemicals  
Keywords: Environmental Studies English. Date revised - 2012-11-01. Last updated - 2012-12-06. DOI - OB-aa7e000b-a381-475b-8273mfgefd108; 16841568; 1559-0631. SubjectsTermNotLitGenreText - Inventories; Statistics; Data processing; Pesticides; Sampling; USA, North Carolina; USA, Iowa

288. Henderson, Andrew D; Hauschild, Michael Z; Meent, Dik; Huijbregts, Mark Aj; Larsen, Henrik Fred; Margni, Manuele; Mckone, Thomas E; Payet, Jerome; Rosenbaum, Ralph K; Jolliet, Olivier, and Jolliet, Olivier. Usetox Fate and Ecotoxicity Factors for Comparative Assessment of Toxic Emissions in Life Cycle Analysis: Sensitivity to Key Chemical Properties. 2011 Sep; 16, (8): 701-709.   
Rec #: 6210  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Purpose: The USEtox model was developed in a scientific consensus process involving comparison of and harmonization between existing environmental multimedia fate models. USEtox quantitatively models the continuum from chemical emission to freshwater ecosystem toxicity via chemical-specific characterization factors (CFs) for Life Cycle Impact Assessment (LCIA). This work provides understanding of the key mechanisms and chemical parameters influencing fate in the environment and impact on aquatic ecosystems. Materials and method: USEtox incorporates a matrix framework for multimedia modeling, allowing separation of fate, exposure, and ecotoxicity effects in the determination of an overall CF. Current best practices, such as incorporation of intermittent rain and effect factors (EF) based on substance toxicity across species, are implemented in the model. The USEtox database provides a dataset of over 3,000 organic chemicals, of which approximately 2,500 have freshwater EFs. Freshwater characterization factors for these substances, with a special focus on a subset of chemicals with characteristic properties, were analyzed to understand the contributions of fate, exposure, and effect on the overall CFs. The approach was based on theoretical interpretation of the multimedia model components as well as multidimensional graphical analysis. Results and discussion: For direct emission of a substance to water, the EF strongly controls freshwater ecotoxicity, with a range of up to 10 orders of magnitude. In this release scenario, chemical-specific differences in environmental fate influence the CF for freshwater emissions by less than 2 orders of magnitude. However, for an emission to air or soil, the influence of the fate is more pronounced. Chemical partitioning properties between water, air, and soil may drive intermedia transfer, which may be limited by the often uncertain, media-specific degradation half-life. Intermedia transfer may be a function of landscape parameters as well; for example, direct transfer from air to freshwater is limited by the surface area of freshwater. Overall, these altered fate factors may decrease the CF up to 8 orders of magnitude. Conclusions: This work brings new clarity to the relative contributions of fate and freshwater ecotoxicity to the calculation of CFs. In concert with the USEtox database, which provides the most extensive compilation of CFs to date, these findings enable those undertaking LCIA to understand and contextualize existing and newly calculated CFs.  
Keywords: Soil  
Keywords: life cycle analysis  
Keywords: Sustainability Science Abstracts  
Keywords: M3 1010:Issues in Sustainable Development  
Keywords: Landscape  
Keywords: chemical properties  
Keywords: Emissions  
Keywords: Environmental impact  
Keywords: graphical analysis  
Keywords: Toxicity  
Keywords: surface area  
Keywords: Environmental Studies English. Date revised - 2012-01-01. Last updated - 2012-01-19. DOI - OB-08ebade8-5ab4-45e7-b1e1mfgefd108; 15578511; 0948-3349; 1614-7502. SubjectsTermNotLitGenreText - Soil; life cycle analysis; Landscape; Environmental impact; chemical properties; Emissions; graphical analysis; Toxicity; surface area

289. Henderson, J. D.; Glucksman, G.; Leong, B.; Tigyi, A.; Ankirskaia, A.; Siddique, I.; Lam, H.; DePeters, E., and Wilson, B. W. Pyridostigmine bromide protection against acetylcholinesterase inhibition by pesticides. 2012; 26, 31-34.   
Rec #: 13660  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pyridostigmine bromide (PB) has been used to protect soldiers from the toxic effects of soman, a chemical warfare agent. Recent research shows that pyridostigmine bromide protects a significant percentage of acetylcholinesterase in isolated human intercostal muscle. Findings presented here indicate that red blood cell acetylcholinesterase is similarly protected by pyridostigmine bromide from the action of diisopropyl fluorophosphate and several organophosphate pesticides including chlorpyrifos-oxon, diazinon-oxon, and paraoxon, but not malaoxon, using the bovine red blood cell as a subject. These findings suggest that pretreatment with PB may protect growers, farmworkers, first responders, and the public, in general, from the effects of selected pesticides. (C) 2011 Wiley Periodicals, Inc. J Biochem Mol Toxicol 26:31-34, 2012; View this article online at wileyonlinelibrary.com. DOI 10:1002/jbt.20410  
Number of Volumes: 1  
ISI Document Delivery No.: 883KX <Go to ISI>://CCC:000299634000005

290. Hermens, J. and Leeuwangh, P. Joint Toxicity of Mixtures of 8 and 24 Chemicals to the Guppy (Poecilia reticulata). 9272//: 1982; 6, 302-310.   
Rec #: 1170  
Keywords: MIXTURE,QSAR,REFS CHECKED  
Call Number: NO MIXTURE (23DPE,CuCl,DLMEN,DM,DPDP,ES,MEN,MLN,MOL,RTN), NO QSAR (23DPE,CuCl,DLMEN,DM,DPDP,ES,MEN,MLN,MOL,RTN), NO REFS CHECKED (23DPE,CuCl,DLMEN,DM,DPDP,ES,MEN,MLN,MOL,RTN)  
Notes: Chemical of Concern: 23DPE,ACD,CuCl,DLD,DLMEN,DM,DPDP,EAC,ES,FLAC,HCCH,MEN,MLN,MOL,PL,PPCP,RTN

291. Hern+índez-Borges, Javier; Cabrera, Juan Cabrera; Rodr+¡guez-Delgado, Miguel +üngel; Hern+índez-Su+írez, Estrella M., and Sa+¦co, V+ ctor Gal+ín. Analysis of pesticide residues in bananas harvested in the Canary Islands (Spain). 2009 Mar 1-; 113, (1): 313-319.   
Rec #: 640  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: In this work, 11 pesticides (ethoprofos, dimethoate, diazinon, malaoxon, chlorpyrifos-methyl, fenitrothion, malathion, chlorpyrifos, fenamiphos, buprofezin and phosmet) were analysed in 57 banana samples taken from the local markets of the Canary Islands (Spain). Analyses were carried out by the QuEChERS approach developed for pesticide residue analysis in food, using gas chromatography (GC) with nitrogenÇôphosphorus detection (NPD). Triphenylphosphate (TPP) was used as internal standard. Recoveries ranged between 67% and 118% with RSD values below 16%. Typical limits of quantification (LOQs) of the method were 0.01Çô0.14 mg/kg, which are below the EU maximum residue limits (MRLs) established for these compounds in bananas. Chlorpyrifos was detected in 50 samples (88%) in the concentration range 0.03Çô0.65 mg/kg, malathion in five samples (8.8%) in the concentration range 0.16Çô0.17 mg/kg, fenitrothion in four samples (7.0%) in the concentration range 0.02Çô0.10 mg/kg and buprofezin in one sample (1.8%) at 0.15 mg/kg. All these values are below the MRLs established for these compounds except for two samples containing fenitrothion. Among the studied pesticides only chlorpyrifos has a high occurrence in the samples. However, the levels of these residues cannot be considered a serious public health problem according to EU regulations. Because of the high occurrence of chlorpyrifos, its distribution between the pulp and the peel was also investigated. Results show that most of the pesticide remains in the peel and that only amounts between 0.07 and 0.12 mg/kg occur in the pulp even at concentrations in the peel as high as 0.87 mg/kg. Gas chromatography/ NitrogenÇôphosphorous detection/ Pesticides/ Bananas/ Monitoring http://www.sciencedirect.com/science/article/pii/S0308814608008637

292. Hern+índez, Antonio F.; Parr+¦n, Tesif+ n; Tsatsakis, Aristidis M.; Requena, Mar; Alarc+¦n, Raquel, and L+¦pez-Guarnido, Olga. Toxic effects of pesticide mixtures at a molecular level: Their relevance to human health: Emerging health issues from chronic pesticide exposure: Innovative methodologies and effects on molecular cell and tissue level. 2013 May 10-; 307, (0): 136-145.   
Rec #: 870  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Pesticides almost always occur in mixtures with other ones. The toxicological effects of low-dose pesticide mixtures on the human health are largely unknown, although there are growing concerns about their safety. The combined toxicological effects of two or more components of a pesticide mixture can take one of three forms: independent, dose addition or interaction. Not all mixtures of pesticides with similar chemical structures produce additive effects; thus, if they act on multiple sites their mixtures may produce different toxic effects. The additive approach also fails when evaluating mixtures that involve a secondary chemical that changes the toxicokinetics of the pesticide as a result of its increased activation or decreased detoxification, which is followed by an enhanced or reduced toxicity, respectively. This review addresses a number of toxicological interactions of pesticide mixtures at a molecular level. Examples of such interactions include the postulated mechanisms for the potentiation of pyrethroid, carbaryl and triazine herbicides toxicity by organophosphates; how the toxicity of some organophosphates can be potentiated by other organophosphates or by previous exposure to organochlorines; the synergism between pyrethroid and carbamate compounds and the antagonism between triazine herbicides and prochloraz. Particular interactions are also addressed, such as those of pesticides acting as endocrine disruptors, the cumulative toxicity of organophosphates and organochlorines resulting in estrogenic effects and the promotion of organophosphate-induced delayed polyneuropathy. Pesticide interactions/ Addition/ Potentiation/ Synergism/ Antagonism http://www.sciencedirect.com/science/article/pii/S0300483X12002260

293. Hiltibran, R. C. Effects of Insecticides on the Metal-Activated Hydrolysis of Adenosine Triphosphate by Bluegill Liver Mitochondria. 8272//: 1982; 11, (6): 709-717.   
Rec #: 1090  
Keywords: IN VITRO  
Call Number: NO IN VITRO (CBF,CBL,DZ,MLN,PRT)  
Notes: Chemical of Concern: AND,CBF,CBL,CHD,DDE,DLD,DZ,EN,EPRN,HCCH,HPT,MLN,MXC,PPCP,PRN,PRT,TXP

294. ---. Oxygen and Phosphate Metabolism of Bluegill Liver Mitochondria in the Presence of Some Insecticides. 1974; 67, (2): 228-237.   
Rec #: 1210  
Keywords: IN VITRO  
Call Number: NO IN VITRO (CBL,DZ,MLN,PRT)  
Notes: Chemical of Concern: AND,CBL,CHD,DDE,DZ,EN,EPRN,HCCH,HPT,MLN,MXC,PPCP,PRN,PRT,TXP

295. Hirvonen, M. R. and Savolainen, K. Malaoxon-Induced Convulsions and Alterations on Cerebral Inositol and Inositol-1-Phosphate Levels in Rats at Different Ages. 1991; 11, (1): 312-(ABS).   
Rec #: 620  
Keywords: NOT PURSUING,ABSTRACT  
Call Number: NO ABSTRACT (MLO)  
Notes: Chemical of Concern: MLO

296. Hodgson, Ernest. Chapter 7 - Metabolic Interactions of Pesticides. Ernest Hodgson. Pesticide Biotransformation and Disposition. Boston: Academic Press; 2012: 149-178.   
Rec #: 1010  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Since simultaneous and/or sequential exposure to more than one xenobiotic is the usual situation, interactions between toxicants (including pesticides) may have important implications for human health risk assessment. Metabolic interactions involving pesticides based on either inhibition or induction are described, as well as more complex interactions involving both interaction and induction. ISSN/ISBN: 978-0-12-385481-0 http://www.sciencedirect.com/science/article/pii/B9780123854810000071

297. ---. Chapter Thirteen - Metabolic Interactions of Environmental Toxicants in Humans. Ernest Hodgson. Progress in Molecular Biology and Translational Science: Toxicology and Human Environments. Volume 112 ed. Academic Press; 2012: 349-372.   
Rec #: 1090  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract ISSN/ISBN: 1877-1173 Activation/ Cytotoxicity/ Induction/ Inhibition/ Microarray/ Potentiation/ Synergism/ Toxic endpoint/ Xenobiotic-metabolizing enzyme http://www.sciencedirect.com/science/article/pii/B9780124158139000131

298. Hoffman, E. R. Biochemical, Fitness, and Genetic Effects of DDT and Malathion Selection on Two Populations of Chironomus riparius: Population and Insecticide Specific Response to Selection for Resistance. 1995: 158 p. (UMI #9526035).   
Rec #: 630  
Keywords: PUBL AS  
Call Number: NO PUBL AS (MLN)  
Notes: Chemical of Concern: DDT,MLN

299. Hoffmann, Sebastian; Kinsner-Ovaskainen, Agnieszka; Prieto, Pilar; Mangelsdorf, Inge; Bieler, Christian; Cole, Thomas, and Hoffmann, Sebastian. Acute Oral Toxicity: Variability, Reliability, Relevance and Interspecies Comparison of Rodent Ld50 Data From Literature Surveyed for the Acutetox Project. 2010 Dec; 58, (3): 395-407.   
Rec #: 6750  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The ACuteTox project has aimed to optimise and prevalidate an in vitro testing strategy for predicting human acute toxicity. Ninety-seven reference substances were selected and an in vivo acute toxicity database was compiled. Comprehensive statistical analyses of the in vivo LD50 data to evaluate variability and reliability, interspecies correlation, predictive capacities with regard to EU and GHS toxicity categories, and deduction of performance criteria for in vitro methods is presented. For the majority of substances variability among rodent data followed a log normal distribution where good reproducibility was found. Rat and mouse interspecies comparison of LD50 studies by ordinary regression showed high correlation, with coefficients of determination, ranging between 0.8 and 0.9. Substance specific differences were only significant for warfarin and cycloheximide. No correlation of compound LD50 range with presumed study quality rank (by assigning Klimisch reliability scores) was found. Modelling based on LD50 variability showed that with at least 90% probability a arrow right 454% of the substances would fall into only one GHS category and a arrow right 444% would fall within two adjacent categories. These results could form the basis for deriving a predictive capacity that should be expected from alternative approaches to the conventional in vivo acute oral toxicity test.  
Keywords: toxicity testing  
Keywords: acute toxicity  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Data processing  
Keywords: Statistical analysis  
Keywords: Cycloheximide  
Keywords: Toxicity  
Keywords: Acute toxicity  
Keywords: Warfarin  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Databases  
Keywords: Medical Sciences--Forensic Sciences  
Keywords: X 24330:Agrochemicals  
Keywords: rodents English. Date revised - 2011-10-01. Last updated - 2011-12-17. DOI - OB-2a9ee384-5571-4b0e-b0a9csamfg201; 14198029; 0273-2300. SubjectsTermNotLitGenreText - Databases; Data processing; Statistical analysis; Cycloheximide; Warfarin; Acute toxicity; toxicity testing; acute toxicity; Toxicity; rodents

300. Hoffmann, W. C.; Walker, T. W.; Fritz, B. K.; Farooq, M. ; Smith, V. L.; Robinson, C. A., and Lan, Y. B. FURTHER EVALUATION OF SPRAY CHARACTERIZATION OF SPRAYERS TYPICALLY USED IN VECTOR CONTROL. 2012; 28, 93-101.   
Rec #: 13720  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This work reports droplet-size data measured as part of a collaborative testing program between the US Department of Agriculture, Agricultural Research Service, and the US Navy, Navy Entomological Center for Excellence. This is an ongoing relationship that seeks to test new and revised spray technologies that may potentially be used by deployed personnel. As new equipment comes to market or when existing equipment is modified they are all integrated into this annual testing. During the 2011 equipment evaluations, 24 sprayers were operated across their range of available settings (pressure and flow rate), using both water and oil solutions. Droplet-size data as measured with laser diffraction ranged from 4 to 223 mm (volume median diameter). Generally, as the spray rate increased, droplet size increased, and as the pressure increased at a given same spray rate, droplet size decreased. This information allows users to set up and operate these sprayers in a manner such that a particular droplet size is applied optimizing efficiency and efficacy of applications.  
Number of Volumes: 2  
ISI Document Delivery No.: 976BV <Go to ISI>://CCC:000306556400004

301. Hoffmann, W. C.; Walker, T. W.; Fritz, B. K.; Farooq, M.; Smith, V. L.; Robinson, C. A.; Szumlas, D., and Lan, Y. B. SPRAY CHARACTERIZATION OF ULTRA-LOW-VOLUME SPRAYERS TYPICALLY USED IN VECTOR CONTROL. 2009; 25, 332-337.   
Rec #: 13730  
Keywords: METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Numerous spray machines are used to apply pesticides for the control of human disease vectors, such as mosquitoes and flies, and the selection and setup of these machines significantly affects the level of control achieved during an application. The droplet spectra produced by 9 different ultra-low-volume sprayers with oil- and water-based spray solutions were evaluated along with 2 thermal foggers with the use of diesel-based spray solutions. The droplet spectra from the sprayers were measured with the use of laser diffraction droplet sizing equipment. The volume median diameter from the sprayers ranged from 14.8 to 61.9 mu m for the oil-based spray solutions and 15.5 to 87.5 mu m for the water-based spray solutions. The 2 thermal foggers generated sprays with a volume median diameter of 3.5 mu m. The data presented will allow spray applicators to select the spray solution and sprayer that generate the droplet-size spectra that meet the desired specific spray application scenarios.  
Number of Volumes: 3  
ISI Document Delivery No.: 504EN <Go to ISI>://CCC:000270598300016

302. Hohenadel, K; Harris, Sa; Mclaughlin, J R; Spinelli, J J; Pahwa, P; Dosman, Ja; Demers, P a; Blair, a, and Hohenadel, K. Exposure to Multiple Pesticides and Risk of Non-Hodgkin Lymphoma in Men From Six Canadian Provinces. 2011 Jun; 8, (6): 2320-2330.   
Rec #: 3420  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Non-Hodgkin lymphoma (NHL) has been linked to several agricultural exposures, including some commonly used pesticides. Although there is a significant body of literature examining the effects of exposure to individual pesticides on NHL, the impact of exposure to multiple pesticides or specific pesticide combinations has not been explored in depth. Data from a six-province Canadian case-control study conducted between 1991 and 1994 were analyzed to investigate the relationship between NHL, the total number of pesticides used and some common pesticide combinations. Cases (n = 513) were identified through hospital records and provincial cancer registries and controls (n = 1,506), frequency matched to cases by age and province of residence, were obtained through provincial health records, telephone listings, or voter lists. In multiple logistic regression analyses, risk of NHL increased with the number of pesticides used. Similar results were obtained in analyses restricted to herbicides, insecticides and several pesticide classes. Odds ratios increased further when only 'potentially carcinogenic' pesticides were considered (OR[one pesticide] = 1.30, 95% CI = 0.90-1.88; OR[two to four] = 1.54, CI = 1.11-2.12; OR[five or more] = 1.94, CI = 1.17-3.23). Elevated risks were also found among those reporting use of malathion in combination with several other pesticides. These analyses support and extend previous findings that the risk of NHL increases with the number of pesticides used and some pesticide combinations.  
Keywords: non-Hodgkin's lymphoma  
Keywords: Risk Abstracts  
Keywords: Insecticides  
Keywords: Carcinogenicity  
Keywords: Pesticides  
Keywords: males  
Keywords: Herbicides  
Keywords: Malathion  
Keywords: Cancer  
Keywords: Hospitals English. Date revised - 2011-10-01. Last updated - 2012-09-24. DOI - MD-0017487864; 15772655; 1660-4601. SubjectsTermNotLitGenreText - non-Hodgkin's lymphoma; Insecticides; Carcinogenicity; Pesticides; males; Herbicides; Malathion; Cancer; Hospitals

303. Holland, E. G.; Hazelton, L. W., and Hanzal, D. L. Toxicity of Malathon (o,o-Dimethyl Dithiophosphate of Diethyl Mercaptosuccinate). 1952; 11, 357-(ABS).   
Rec #: 640  
Keywords: NOT PURSUING,ABSTRACT  
Call Number: NO ABSTRACT (MLN)  
Notes: Chemical of Concern: MLN

304. Holland, Tom; Holland, Christopher, and Holland, Tom. Unbiased Histological Examinations in Toxicological Experiments (or, the Informed Leading the Blinded Examination). 2011 Jun; 39, (4): 711-714.   
Rec #: 6340  
Keywords: METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Environmental Studies--Toxicology And Environmental Safety English. Date revised - 2012-09-01. Last updated - 2012-09-27. DOI - OB-7ee603e9-4f0a-47d8-9d51mfgefd101; 15070684; 0192-6233

305. Holmstrup, Martin; Bindesbal, Anne-Mette; Oostingh, Gertie Janneke; Duschl, Albert; Scheil, Volker; Koehler, Heinz-R; Loureiro, Susana; Soares, Amadeu Mvm; Ferreira, Abel Lg; Kienle, Cornelia; Gerhardt, Almut; Laskowski, Ryszard; Kramarz, Paulina E; Bayley, Mark; Svendsen, Claus; Spurgeon, David J, and Kienle, Cornelia. Interactions Between Effects of Environmental Chemicals and Natural Stressors: a Review. 2010 Aug 15; 408, (18): 3746-3762.   
Rec #: 6890  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Ecotoxicological effect studies often expose test organisms under optimal environmental conditions. However, organisms in their natural settings rarely experience optimal conditions. On the contrary, during most of their lifetime they are forced to cope with sub-optimal conditions and occasionally with severe environmental stress. Interactions between the effects of a natural stressor and a toxicant can sometimes result in greater effects than expected from either of the stress types alone. The aim of the present review is to provide a synthesis of existing knowledge on the interactions between effects of "natural" and chemical (anthropogenic) stressors. More than 150 studies were evaluated covering stressors including heat, cold, desiccation, oxygen depletion, pathogens and immunomodulatory factors combined with a variety of environmental pollutants. This evaluation revealed that synergistic interactions between the effects of various natural stressors and toxicants are not uncommon phenomena. Thus, synergistic interactions were reported in more than 50% of the available studies on these interactions. Antagonistic interactions were also detected, but in fewer cases. Interestingly, about 70% of the tested chemicals were found to compromise the immune system of humans as judged from studies on human cell lines. The challenge for future studies will therefore be to include aspects of combined stressors in effect and risk assessment of chemicals in the environment.  
Keywords: Chemicals  
Keywords: Risk assessment  
Keywords: test organisms  
Keywords: Toxicants  
Keywords: immune system  
Keywords: Risk Abstracts; Environment Abstracts; Pollution Abstracts  
Keywords: Stress  
Keywords: Pathogens  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Environmental Studies  
Keywords: Reviews  
Keywords: Oxygen depletion  
Keywords: R2 23010:General: Models, forecasting English. Date revised - 2011-10-01. Last updated - 2012-08-02. DOI - OB-36c73453-ca36-4f4d-a9f4csaobj202; 13249915; 0048-9697. SubjectsTermNotLitGenreText - Risk assessment; Chemicals; test organisms; immune system; Toxicants; Reviews; Oxygen depletion; Stress; Pathogens

306. Holth, T. F. and Tollefsen, K. E. Acetylcholine esterase inhibitors in effluents from oil production platforms in the North Sea. 2012 May 15-; 112Çô113, (0): 92-98.   
Rec #: 2300  
Keywords: EFFLUENT  
Notes: Chemical of Concern: MLN  
Abstract: Inhibition of acetylcholine esterase (AChE) activity is a biomarker for the exposure to neurotoxic compounds such as organophosphates and is intimately associated with the toxicity of several pesticides. In the present study, the AChE inhibiting potential of organic extracts of production water (produced water) from oil and gas production platforms in the Norwegian sector of the North Sea was determined in an in vitro bioassay based on commercially available purified AChE from the electric organ of Electrophorus electricus (L.). The results from the studies show that produced water contains a combination of AChE inhibiting compounds and compounds stimulating AChE enzymatic activity. The AChE inhibition was predominantly caused by unidentified aromatic compounds in the oil/particulate fraction of produced water, whereas polar compounds in both the water soluble and oil/particulate fraction of produced water caused an apparent stimulation of AChE activity. Substrate saturation studies with fixed concentrations of produced water extracts confirmed that the inhibition occurred in a non-destructive and competitive manner. The concentrations of AChE inhibitors (7.9Çô453 ng paraoxon-equivalents LęĆ1, 2.2Çô178 ++g dichlorvos-equivalents LęĆ1) were in many cases found to be several orders of magnitude higher than background levels. The findings demonstrate that produced water contains potentially neurotoxic compounds and suggest that further laboratory studies with fish or field studies in the vicinity of oil production facilities are highly warranted. Oil production/ Produced water/ AChE/ Neurotoxicity/ Japanese eel/ In vitro http://www.sciencedirect.com/science/article/pii/S0166445X11003031

307. Hoppin, Jane a; Long, Stuart; Umbach, David M; Lubin, Jay H; Starks, Sarah E; Gerr, Fred; Thomas, Kent; Hines, Cynthia J; Weichenthal, Scott; Kamel, Freya; Koutros, Stella; Alavanja, Michael; Beane Freeman, Laura E; Sandler, Dale P, and Hoppin, Jane A. Lifetime Organophosphorous Insecticide Use Among Private Pesticide Applicators in the Agricultural Health Study. 2012 Nov; 22, (6): 584-592.   
Rec #: 2460  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organophosphorous insecticides (OPs) are the most commonly used insecticides in US agriculture, but little information is available regarding specific OP use by individual farmers. We describe OP use for licensed private pesticide applicators from Iowa and North Carolina in the Agricultural Health Study (AHS) using lifetime pesticide use data from 701 randomly selected male participants collected at three time periods. Of 27 OPs studied, 20 were used by >1%. Overall, 95% had ever applied at least one OP. The median number of different OPs used was 4 (maximum=13). Malathion was the most commonly used OP (74%) followed by chlorpyrifos (54%). OP use declined over time. At the first interview (1993-1997), 68% of participants had applied OPs in the past year; by the last interview (2005-2007), only 42% had. Similarly, median annual application days of OPs declined from 13.5 to 6 days. Although OP use was common, the specific OPs used varied by state, time period, and individual. Much of the variability in OP use was associated with the choice of OP, rather than the frequency or duration of application. Information on farmers' OP use enhances our ability to characterize and understand the potential health effects of multiple OP exposures.  
Keywords: Chlorpyrifos  
Keywords: Agriculture  
Keywords: USA, North Carolina  
Keywords: Toxicology Abstracts; Health & Safety Science Abstracts  
Keywords: Insecticides  
Keywords: Data processing  
Keywords: USA, Iowa  
Keywords: H 5000:Pesticides  
Keywords: Pesticides  
Keywords: X 24330:Agrochemicals  
Keywords: Malathion  
Keywords: Environmental Studies English. Date revised - 2013-03-01. Last updated - 2013-03-14. DOI - OB-46e1b167-54cc-49ac-8412mfgefd107; 17410891; 1559-0631. SubjectsTermNotLitGenreText - Chlorpyrifos; Agriculture; Data processing; Insecticides; Pesticides; Malathion; USA, North Carolina; USA, Iowa

308. Horton, Megan K; Jacobson, J Bryan; Mckelvey, Wendy; Holmes, Darrell; Fincher, Betty; Quantano, Audrey; Diaz, Beinvendida Paez; Shabbazz, Faye; Shepard, Peggy; Rundle, Andrew; Whyatt, Robin M, and Rundle, Andrew. Characterization of Residential Pest Control Products Used in Inner City Communities in New York City. 2011 May; 21, (3): 291-301.   
Rec #: 6420  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The Columbia Center for Children's Environmental Health (CCCEH) previously reported widespread residential insecticide use in urban communities in New York City. Research suggests that pyrethroids are replacing organophosphates (OPs) in response to 2000-2001 US EPA pesticide regulations restricting OP use. A systematic assessment of active ingredients used for residential pest control is lacking. We queried a database of pesticide applications reported by licensed applicators between 1999 and 2005 and surveyed pest control products available in 145 stores within 29 zip codes in the CCCEH catchment area including Northern Manhattan and the South Bronx. Pyrethroids, pyrethrins, piperonyl butoxide, and hydramethylnon were the most common insecticide active ingredients reported as used by licensed pesticide applicators within the 29 zip codes of the CCCEH catchment area between 1999 and 2005. Use of certain pyrethroids and some non-spray insecticides such as fipronil and boric acid increased significantly by year (logistic regression, OR>1.0, P<0.05), whereas use of OPs, including chlorpyrifos and diazinon decreased significantly by year (logistic regression, OR<1.0, P<0.05). Among pesticide applicators, the most commonly applied active ingredients were formulated as spray applications. With 145 stores in the catchment area, 120 (82.5%) carried at least one insecticide. Spray cans were most common (114/120 stores, 95%); gels were least common (31/120 stores, 25.8%). Among spray formulations, pyrethroid insecticides were the most common pesticide class and permethrin, a pyrethroid, was the most common individual active ingredient. In 2007, one store carried a product containing chlorpyrifos and one store carried a product containing diazinon. This survey suggests that certain pyrethroids and non-spray insecticides replaced OPs for pest control in this area. Chlorpyrifos and diazinon have nearly been eliminated from products marketed for residential pest control.  
Keywords: Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2011-05-01. Last updated - 2011-11-04. DOI - OB-ede91b78-e69b-4880-9522mfgefd101; 14873877; 1559-0631

309. Hossain, F.; Ali, O.; D'souza, U. J., and Naing, D. K. Effects of Pesticide Use on Semen Quality Among Farmers in Rural Areas of Sabah, Malaysia.   
Rec #: 9350  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: OBJECTIVES: To determine the relationship between semen quality and exposure to pesticide residues.  
ABSTRACT: METHODS: A cross-sectional study was conducted among male farmers from 3 different communities in Sabah, Malaysia. A total of 152 farmers participated in this study of whom 62 farmers had been exposed to either paraquat or malathion or both to varying extents. Questionnaires were designed to record a history of pesticides exposure and other potential risk factors among farmers. All semen samples were collected, processed and analyzed by qualified personnel based on WHO guidelines. Volume, pH, sperm concentration, motility, morphology and WBC count were examined and recorded. The association between pesticide exposure and semen parameters was highly significant.  
ABSTRACT: RESULTS: The mean values of volume, pH, sperm concentration, motility, and WBC count were significantly less in the exposed group than in compared with the non-exposed group, with p < 0.005. Those who were exposed to pesticides had greater risk of having abnormal semen parameters than those in with the non exposed group, with p values of less than 0.05. The comparison between semen qualities such as lower sperm count, motility and higher percentage of sperm abnormality of those exposed to different types of pesticides (paraquat and malathion) showed no significant differences.  
ABSTRACT: CONCLUSION: The results showed a significant decline in semen quality with a decline in sperm count, motility and higher percent of teratospermia among subjects with pesticide exposure, and those who were exposed to pesticides had significantly 3 to 9 times greater risk of having abnormal semen parameters.  
MESH HEADINGS: \*Agriculture  
MESH HEADINGS: Alcohol Drinking/adverse effects/epidemiology  
MESH HEADINGS: Cross-Sectional Studies  
MESH HEADINGS: Herbicides/\*adverse effects  
MESH HEADINGS: Humans  
MESH HEADINGS: Insecticides/\*adverse effects  
MESH HEADINGS: Malathion/\*adverse effects  
MESH HEADINGS: /epidemiology  
MESH HEADINGS: Male  
MESH HEADINGS: Occupational Exposure/\*adverse effects  
MESH HEADINGS: Paraquat/\*adverse effects  
MESH HEADINGS: Pesticides/adverse effects  
MESH HEADINGS: Questionnaires  
MESH HEADINGS: Risk Factors  
MESH HEADINGS: Rural Population  
MESH HEADINGS: \*Semen Analysis  
MESH HEADINGS: Smoking/adverse effects/epidemiology eng

310. Hossain, S. M. Z.; Luckham, R. E.; McFadden, M. J., and Brennan, J. D. Reagentless Bidirectional Lateral Flow Bioactive Paper Sensors for Detection of Pesticides in Beverage and Food Samples. 2009; 81, 9055-9064.   
Rec #: 13760  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A reagentless bioactive paper-based solid-phase biosensor was developed for detection of acetylcholinesterase (AChE) inhibitors, including organophosphate pesticides. The assay strip is composed of a paper support (1 x 10 cm), onto which AChE and a chromogenic substrate, indophenyl acetate (IPA), were entrapped using biocompatible sol gel derived silica inks in two different zones (e.g., sensing and substrate zones). The assay protocol involves first introducing the sample to the sensing zone via lateral flow of a pesticide-containing solution. Following an incubation period, the opposite end of the paper support is placed into distilled deionized water (ddH(2)O) to allow lateral flow in the opposite direction to move paper-bound IPA to the sensing area to initiate enzyme catalyzed hydrolysis of the substrate, causing a yellow-to-blue color change. The modified sensor is able to detect pesticides without the use of any external reagents with excellent detection limits (bendiocarb 1 nM; carbatyl similar to 10 nM; paraoxon similar to 1 nM; malathion similar to 10 nM) and rapid response times (similar to 5 min). The sensor strip showed negligible matrix effects in detection of pesticides in spiked milk and apple juice samples. Bioactive paper-based assays on pesticide residues collected from food samples showed good agreement with a conventional mass spectrometric assay method. The bioactive paper assay should, therefore, be suitable for rapid screening of trace levels of organophosphate and carbamate pesticides in environmental and food samples.  
Number of Volumes: 21  
ISI Document Delivery No.: 577AL <Go to ISI>://CCC:000276191900057

311. Hu, C.; He, M.; Chen, B. B., and Hu, B. A sol-gel polydimethylsiloxane/polythiophene coated stir bar sorptive extraction combined with gas chromatography-flame photometric detection for the determination of organophosphorus pesticides in environmental water samples. 2013; 1275, 25-31.   
Rec #: 13780  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this work, a new method of polydimethylsiloxane/polythiophene (PDMS/PTH) coated stir bar sorptive extraction (SBSE) coupled to liquid desorption-large volume injection-gas chromatography-flame photometric detection (LD-LVI-GC-FPD) was proposed for the determination of organophosphorus pesticides (OPPs, including phorate, fenitrothion, malathion, parathion and quinalphos) in environmental water samples. Polythiophene was synthesized by chemical oxidative polymerization method, and the PDMS/PTH coated stir bar was prepared by sol-gel technique. The preparation reproducibility of PDMS/PTH coated stir bar was good with the relative standard deviations (RSDs) ranging from 3.9% to 8.1% (n = 7) in one batch, and from 5.9% to 14.9% (n = 6) among different batches. To get the best extraction performance for OPPs, the operation parameters affecting the extraction efficiency of SBSE, including extraction time, desorption time, stirring rate and ionic strength, were investigated. Under the optimal conditions, the limits of detection (S/N = 3) were found to be in the range of 0.011-0.038 mu g/L for the five target OPPs, and the linear range was from 0.2 to 100 mu g/L for phorate and 0.1-100 mu g/L for other four OPPs. The RSDs of the proposed method were in the range of 4.0-9.8% (n = 8, c = 1 mu g/L) and the enrichment factors were varied from 56.7 to 80.9-fold (theory enrichment factor was 100-fold). The proposed method was applied to the analysis of OPPs in East Lake water and ground water samples with recovery in the range of 77.7-119.8% and 79.1-109.8% for the spiked East Lake water and ground water samples, respectively. (C) 2013 Elsevier B.V. All rights reserved.  
ISI Document Delivery No.: 081OC <Go to ISI>://CCC:000314330500004

312. Hu, H. M.; Sun, X. M.; Guo, Y. M.; Zhong, Z.; He, Y.; Chen, X. C., and Wang, X. Z. Determination of Trace Organophosphorus Pesticides in Water Samples by Solid Phase Disk Extraction and Gas Chromatography-Thermionic Specific Detector. 2013; 46, 764-775.   
Rec #: 13800  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A simple, rapid, sensitive, and high-throughput method based on solid-phase disk extraction (SPDE) and a gas chromatographythermionic specific detector (GC-TSD) is described for the determination of organophosphorus pesticides (OPPs) in water samples. The proposed SPDE sample pretreatment method was initially optimized and the optimum experimental conditions found were 500mL water sample (pH 2.57.0) extracted and enriched by a C18 (octadecyl) solid phase extraction disk at flow rate of 5 to 50mL/min and eluted by 5mL of acetone and 3x5mL methylene chloride. The linearity of the method ranged from 0.020 to 1.00 mu g/L for dimethoate, methyl parathion, and malathion, with correlation coefficients ranging between 0.9976 and 0.9992. The concentration factors for OPPs were between 498 and 554. The limits of detection were in the ng/L level, ranging between 2.5 and 4ng/L. The relative recoveries of spiked 3 OPPs (dimethoate, methyl parathion, and malathion) with external calibration method at different concentration levels in pure, fresh water, and sea water samples were 102112%, 94109%, and 99104%, respectively, and with relative standard deviations of 4.16.2%, 3.44.6%, and 3.55.2% (n=3), respectively. It is concluded that this method can be successfully applied for the determination of OPPs in pure water, fresh water, and sea water samples.  
Number of Volumes: 5  
ISI Document Delivery No.: 097QP <Go to ISI>://CCC:000315488900005

313. Imlay, P.; Park, G., and Charles, S. J. The Acute Dermal LD50 of Fyfanon on New Zealand Albino Rabbits. 1978.  
Rec #: 650  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

314. Ippolito, a ; Todeschini, R; Vighi, M, and Ippolito, A. Sensitivity Assessment of Freshwater Macroinvertebrates to Pesticides Using Biological Traits. 2012 Mar; 21, (2): 336-352.   
Rec #: 5890  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Assessing the sensitivity of different species to chemicals is one of the key points in predicting the effects of toxic compounds in the environment. Trait-based predicting methods have proved to be extremely efficient for assessing the sensitivity of macroinvertebrates toward compounds with non specific toxicity (narcotics). Nevertheless, predicting the sensitivity of organisms toward compounds with specific toxicity is much more complex, since it depends on the mode of action of the chemical. The aim of this work was to predict the sensitivity of several freshwater macroinvertebrates toward three classes of plant protection products: organophosphates, carbamates and pyrethroids. Two databases were built: one with sensitivity data (retrieved, evaluated and selected from the U.S. Environmental Protection Agency ECOTOX database) and the other with biological traits. Aside from the "traditional" traits usually considered in ecological analysis (i.e. body size, respiration technique, feeding habits, etc.), multivariate analysis was used to relate the sensitivity of organisms to some other characteristics which may be involved in the process of intoxication. Results confirmed that, besides traditional biological traits, related to uptake capability (e.g. body size and body shape) some traits more related to particular metabolic characteristics or patterns have a good predictive capacity on the sensitivity to these kinds of toxic substances. For example, behavioral complexity, assumed as an indicator of nervous system complexity, proved to be an important predictor of sensitivity towards these compounds. These results confirm the need for more complex traits to predict effects of highly specific substances. One key point for achieving a complete mechanistic understanding of the process is the choice of traits, whose role in the discrimination of sensitivity should be clearly interpretable, and not only statistically significant.  
Keywords: Intoxication  
Keywords: Chemicals  
Keywords: D 04070:Pollution  
Keywords: Toxic substances  
Keywords: ENA 09:Land Use & Planning  
Keywords: Plant protection  
Keywords: Organophosphates  
Keywords: Respiration  
Keywords: Statistical analysis  
Keywords: body size  
Keywords: Environmental Studies  
Keywords: Nervous system  
Keywords: intoxication  
Keywords: Multivariate analysis  
Keywords: Body size  
Keywords: Pyrethroids  
Keywords: X 24330:Agrochemicals  
Keywords: Sensitivity  
Keywords: Feeding  
Keywords: Data processing  
Keywords: Freshwater environments  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Narcotics  
Keywords: Ecology Abstracts; Toxicology Abstracts; Environment Abstracts; Pollution Abstracts  
Keywords: organophosphates  
Keywords: Toxicity  
Keywords: Pesticides (carbamates)  
Keywords: EPA  
Keywords: Databases  
Keywords: USA  
Keywords: Pesticides English. Date revised - 2012-04-01. Last updated - 2012-04-12. DOI - OB-861b5eea-3f93-4053-9fe1mfgefd107; 16335286; 0963-9292; 1573-3017. SubjectsTermNotLitGenreText - Intoxication; Feeding; Data processing; Plant protection; Freshwater environments; Respiration; Statistical analysis; Narcotics; Toxicity; organophosphates; Pesticides (carbamates); Databases; Nervous system; Multivariate analysis; Pesticides; Body size; Pyrethroids; Chemicals; EPA; Sensitivity; intoxication; Toxic substances; Organophosphates; body size; USA

315. Ito, N.; Imaida, K.; Hagiwara, A.; Tamano, S., and Shirai, T. Effects of Ingesting a Combination of 20 or 40 Pesticides at ADI Levels on Carcinogenesis in Rats. 1998; 2, (1-4): 85-92.   
Rec #: 150  
Keywords: MIXTURE  
Call Number: NO MIXTURE (ACP,AMZ,BS,BT,CAP,CPP,CPY,CTZ,CYF,CYH,CYP,Conazoles,DCF,DDVP,DFZ,DMT,ES,FBOX,FNT,FNV,FRM,FST,FTL,GYP,MDT,MLN,MLX,MTL,MYC,MZB,Maneb,OML,PCZ,PDM,PIRM,PMR,PPCP,PPCP2011,PPX,PSM,QNC,TBC,TCF,TDF,TFN,VCZ)  
Notes: Chemical of Concern: ACP,AMZ,BS,BT,CAP,CPP,CPY,CTZ,CYF,CYH,CYP,Conazoles,DBN,DCF,DDVP,DFZ,DMT,ES,FBOX,FNT,FNV,FRM,FST,FTL,FYT,GYP,ILL,MBZ,MDT,MLN,MLX,MQC,MTL,MYC,MZB,Maneb,OML,PCZ,PDM,PIRM,PMR,PPCP,PPCP2011,PPX,PSM,QNC,TBC,TCF,TCM,TDF,TFN,VCZ,Zineb

316. Ivanov, A. N.; Younusov, R. R.; Evtugyn, G. A.; Arduini, F.; Moscone, D., and Palleschi, G. Acetylcholinesterase Biosensor Based on Single-Walled Carbon Nanotubes--Co Phtalocyanine for Organophosphorus Pesticides Detection.   
Rec #: 9100  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: A simple and reliable technique has been developed for the construction of an amperometric acetylcholinesterase biosensor based on screen-printed carbon electrodes. For the first time, one-step modification using single-walled carbon nanotubes and Co phtalocyanine has been proposed to decrease the working potential and to increase the signal of thiocholine oxidation. The biosensor developed made it possible to detect 5-50 ppb of paraoxon and 2-50 ppb of malaoxon with detection limits of 3 and 2 ppb, respectively (incubation 15 min). The biosensor showed high reproducibility when measurements of the substrate and inhibitor were performed (R.S.D. about 1% and 2.5%, respectively). The reliability of the inhibition measurements was confirmed by testing spiked samples of sparkling and tape waters.  
MESH HEADINGS: \*Acetylcholinesterase/diagnostic use  
MESH HEADINGS: Biosensing Techniques/\*methods  
MESH HEADINGS: Cholinesterase Inhibitors/\*analysis  
MESH HEADINGS: Electrodes  
MESH HEADINGS: Indoles  
MESH HEADINGS: Limit of Detection  
MESH HEADINGS: Malathion/analogs &amp  
MESH HEADINGS: derivatives/analysis  
MESH HEADINGS: Nanotubes, Carbon  
MESH HEADINGS: Organophosphorus Compounds/analysis  
MESH HEADINGS: Paraoxon/analysis  
MESH HEADINGS: Pesticides/\*analysis  
MESH HEADINGS: Reproducibility of Results eng

317. Izumi, H.; Ogata, A.; Nafie, L. A., and Dukor, R. K. Structural Determination of Molecular Stereochemistry Using VCD Spectroscopy and a Conformational Code: Absolute Configuration and Solution Conformation of a Chiral Liquid Pesticide, (R)-(+)-Malathion. 2009; 21, E172-E180.   
Rec #: 13850  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The absolute configuration and solution conformation of (R)-(+)-malathion were determined by using vibrational circular dichroism spectroscopy and a fragment-conformational search with a recently published conformational code. The determination of molecular stereochemistry was carried out without a conformational search using molecular mechanics calculations. Density functional theory calculations of the fragments of (R)-malathion, ethyl propionate, (R)-ethyl 2-(methylthio)propanoate, (R)-diethyl 2-(methylthio)succinate, and O,O,S-trimethyl phosphorodithioate were carried out, and the principal conformational features of the fragments were profiled. This fragment-conformational search reduces the time needed for the selection of the predominant conformations for (R)-malathion and significantly improves the accuracy of the determination of absolute configuration. Chirality 21:E172-E180, 2009. (C) 2009 Wiley-Liss, Inc.  
Number of Volumes: 1E  
ISI Document Delivery No.: 611PM <Go to ISI>://CCC:000278832000018

318. Jager, T.; Posthuma, L.; De Zwart, D., and Van de Meent, D. Novel View on Predicting Acute Toxicity: Decomposing Toxicity Data in Species Vulnerability and Chemical Potency. 2007; 67, 311-322.   
Rec #: 160  
Keywords: MODELING,REFS CHECKED  
Call Number: NO MODELING (ATZ,MLN), NO REFS CHECKED (ATZ,MLN)  
Notes: Chemical of Concern: ATZ,MLN

319. Jain, N; Joshi, S, and Jain, N. Toxic Impact of Malathion on Epididymal Function. 2009 Sep 13; 189, 1-S149.   
Rec #: 4750  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Abstract not available.  
Keywords: Toxicology Abstracts; Environment Abstracts  
Keywords: X 24330:Agrochemicals  
Keywords: Malathion  
Keywords: ENA 02:Toxicology & Environmental Safety English. Date revised - 2009-08-01. Last updated - 2011-12-14. DOI - MD-0010154513; 10273937; 0378-4274. SubjectsTermNotLitGenreText - Malathion

320. Jain, Nisha; Joshi, Suresh, and Jain, Nisha. Toxic Impact of Malathion on Epididymal Function. 2009 Sep 13.  
Rec #: 4740  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: U 2000:Biological Sciences  
Keywords: Malathion English. Date revised - 2009-12-18. Last updated - 2010-05-03. DOI - CPI-5357540; 5357540

321. Jaiswal, Meha; Chauhan, Divya; Sankararamakrishnan, Nalini, and Jaiswal, Meha. Copper Chitosan Nanocomposite: Synthesis, Characterization, and Application in Removal of Organophosphorous Pesticide From Agricultural Runoff. 2012 Jul; 19, (6): 2055-2062.   
Rec #: 2620  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Purpose: Removal of malathion from agricultural runoff was studied using novel copper-coated chitosan nanocomposite (CuCH)-a biopolymeric waste obtained from marine industry. Methods: Synthesis and characterization of the adsorbent using different spectral techniques like Fourier transform infrared spectroscopy (FTIR), scanning electron microscopy, energy-dispersive X-ray spectroscopy, Brunauer, Emmett, and Teller surface analyzer have been carried out. Equilibrium studies have been carried out to optimize the dose rate, pH, and the reaction time. Parathion and methyl parathion removal were also evaluated by CuCH in the batch mode. Using gas chromatography-mass spectrometry (GC-MS) and FTIR studies suitable mechanism for adsorption has been suggested. Results: The particle size of the adsorbent ranged from 700 to 750 nm. The surface area was found to be 20 m super(2) g super(-1) with a pore volume of 0.11 cc g super(-1). The maximum adsorption capacity of malathion by CuCH was found to be 322.6 plus or minus 3.5 mg g super(-1) at an optimum pH of 2.0. Presence of copper ions enhanced the adsorption capacity of the adsorbent. The reaction was found to follow pseudo second-order kinetics with a rate constant of 0.53 gmg super(-1) min super(-1). Evidence from FTIR indicated that copper ions form a dithionate complex with malathion during the adsorption stage. The adsorbent was found to remove malathion completely from spiked concentration of 2 mg l super(-1) in the agricultural run-off samples. It was also found that CuCH removed other organophospurous pesticides like methyl parathion and parathion under prevailing conditions. Conclusions: The results indicated that CuCH could be applied for the removal of organophosphorous pesticides.  
Keywords: Ions  
Keywords: Infrared spectroscopy  
Keywords: Environmental sciences  
Keywords: ENA 12:Oceans & Estuaries  
Keywords: M2 551.508:Instruments (551.508)  
Keywords: Copper  
Keywords: Malathion  
Keywords: Spectrometry  
Keywords: Environmental Studies--Pollution  
Keywords: P 1000:MARINE POLLUTION  
Keywords: Pesticides  
Keywords: Adsorption  
Keywords: Pollution Abstracts; Meteorological & Geoastrophysical Abstracts; Environment Abstracts; Aqualine Abstracts  
Keywords: X-ray spectrum  
Keywords: Agricultural runoff  
Keywords: Electron microscopy  
Keywords: pH  
Keywords: Parathion English. Date revised - 2012-11-01. Last updated - 2012-12-06. DOI - OB-cc836ca7-1bfc-4990-8481mfgefd107; 16902699; 0944-1344; 1614-7499. SubjectsTermNotLitGenreText - Infrared spectroscopy; Environmental sciences; X-ray spectrum; Electron microscopy; Spectrometry; Ions; Pesticides; Adsorption; Copper; Agricultural runoff; pH; Malathion; Parathion

322. Jansen, M.; Coors, A.; Stoks, R., and De Meester, L. Evolutionary ecotoxicology of pesticide resistance: a case study in Daphnia. 2011; 20, 543-551.   
Rec #: 13890  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Natural populations that are exposed to pesticides in their environment may at the same time be exposed to natural stressors like parasites and predators, which may interact with pesticide exposure. This may not only impact target pest species but also a wide variety of non-target species. This review reports on a joint research program in the water flea Daphnia magna, a non-target species often used as model organism in ecology and ecotoxicology. The focus is on different aspects that are of key importance to understand the evolutionary ecology of pesticide exposure: (1) the capacity of natural populations to genetically adapt to pesticide exposure (2) the added complexity of synergistic effects caused by simultaneous exposure to natural stressors, and (3) the potential interference of evolutionary costs of adaptation to pesticide exposure. Our results showed that natural populations were able to rapidly evolve resistance to the pesticide carbaryl but at the expense of fitness costs. Individuals selected for carbaryl resistance had higher survival rates when exposed to the pesticide but also a greater susceptibility to the challenge imposed by the bacterial endoparasite Pasteuria ramosa. The evolved resistance to carbaryl was in some cases only expressed in the absence of fish kairomones. Further, it became clear that the responses to both exposure to single and combined stressors was for several life history variables strongly dependent upon past exposure to carbaryl. This indicates that past exposures to pesticides are important and can not be neglected when evaluating responses to current stressors.  
Number of Volumes: 3  
ISI Document Delivery No.: 754IP <Go to ISI>://CCC:000289848600007

323. Jardim, Andreia N. O. and Caldas, Eloisa D. Brazilian monitoring programs for pesticide residues in food Çô Results from 2001 to 2010. 2012 Jun; 25, (2): 607-616.   
Rec #: 2340  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: A total of 13,556 samples of 22 fruit and vegetable crops, rice, and beans were analyzed within two Brazilian pesticide residue monitoring programs between 2001 and 2010. Pesticide residues were found in 48.3% of the samples, and 13.2% presented some irregularity, mostly non-authorized active ingredient use. Less than 3% of the samples had residue levels above the MRL. Apple, papaya, sweet pepper and strawberry were the crops with the higher percentages of positive samples (about 80%). Dithiocarbamates and organophosphorus compounds were found in 41.6% and 30.8% of the samples, respectively. Carbendazim and chlorpyrifos were the pesticides most found (26.7 and 16.1% of positive samples, respectively). Almost half of the samples analyzed had multiple residues (up to 10 residues), with multiple residues most common in samples of apple, sweet pepper and tomato. About 8% of positive samples contained up to four residues of the same chemical class, mainly organophosphorus compounds (18.6%, mostly in apple) and triazoles (16.1%, mostly in papaya and grape). In general, the scenario of pesticide residues in foods investigated within the Brazilian governmental monitoring programs in the last decade is similar to what has been found in other countries. However, the use of non-authorized active ingredients is a common practice among the farmers in the country, a problem that the government authorities have been trying to solve. A preliminary cumulative acute exposure assessment for organophosphates and carbamates in apple has shown that the intake by individuals ëÑ10 years old accounts for 100% of the acephate ARfD, indicating a need to further investigate the exposure through the consumptions of other crops and group of pesticides, mainly for children. Pesticide residues/ Food/ Brazil http://www.sciencedirect.com/science/article/pii/S0956713511004828

324. Jennings, D. E. The Conservation and Ecology of Carnivorous Plants. SOIL; 2011: 129 p. (UMI#3482568).   
Rec #: 1740  
Keywords: PUBL AS  
Call Number: NO PUBL AS (CBL,LCYT,MLN)  
Notes: Chemical of Concern: CBL,LCYT,MLN

325. Jensen, Inge M. and Whatling, Paul. Chapter 71 - Malathion: A Review of Toxicology. Robert Krieger. Hayes' Handbook of Pesticide Toxicology (Third Edition). New York: Academic Press; 2010: 1527-1542.   
Rec #: 420  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: ISSN/ISBN: 978-0-12-374367-1 http://www.sciencedirect.com/science/article/pii/B9780123743671000719

326. Jeong, Jee Yeon; Choi, Sangjun; Kho, Young Lim; Kim, Pan Gyi, and Jeong, Jee Yeon. Extensive Changes to Occupational Exposure Limits in Korea. 2010 Nov; 58, (2): 345-348.   
Rec #: 6770  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Occupational exposure limits (OELs) are used as an important tool to protect workers from adverse chemical exposures and its detrimental effects on their health. The Ministry of Labor (MOL) can establish and publish OELs based on the Industrial Safety and Health Act in Korea. The first set of OELs was announced by the MOL in 1986. At that time, it was identical to the Threshold Limit Values of the American Conference of Governmental Industrial Hygienists. Until 2006, none the first OELs except for those of three chemicals (asbestos, benzene, and 2-bromopropane) were updated during the last twenty years. The Hazardous Agents Review Committee established under the MOL selected 126 chemicals from 698 chemicals covered by OELs using several criteria. From 2005 to 2006, the MOL provided research funds for academic institutions and toxicological laboratories to gather the evidence documenting the need to revise the outdated OELs. Finally, the MOL notified the revised OELs for 126 chemicals from 2007 to 2008. The revised OELs of 58 substances from among these chemicals were lowered to equal or less than half the value of the original OELs. This is the most substantial change in the history of OEL revisions in Korea.  
Keywords: Historical account  
Keywords: Asbestos  
Keywords: Conferences  
Keywords: Occupational safety  
Keywords: Threshold limits  
Keywords: H 1000:Occupational Safety and Health  
Keywords: Benzene  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Medical Sciences--Forensic Sciences  
Keywords: funds  
Keywords: Environment Abstracts; Health & Safety Science Abstracts; Toxicology Abstracts  
Keywords: Reviews  
Keywords: Korea, Rep.  
Keywords: X 24350:Industrial Chemicals  
Keywords: Occupational exposure English. Date revised - 2011-10-01. Last updated - 2011-12-13. DOI - OB-8f51a84a-a098-4853-b943csamfg201; 13972290; 0273-2300. SubjectsTermNotLitGenreText - Asbestos; Conferences; Reviews; Threshold limits; Benzene; Occupational exposure; Historical account; funds; Occupational safety; Korea, Rep.

327. Jiang, D; Yue, L; Ma, D; Zhu, Y; Yin, D, and Jiang, D. Ecological Risk Assessment of Water in Taihu Lake and Tianmu Lake Using Species Sensitivity Distribution Model. 2012 Mar; 31, (3): 301-306.   
Rec #: 2770  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Ecological risk assessment on the pollutants in lakes can enable appropriate monitoring and management work, which is important for the protection and recovery of aquatic ecosystem, the prevention of algae bloom and lake degradation. Ecological risk assessment on the typical pollutants in Taihu Lake and Tianmu Lake was performed using species sensitivity distributions (SSDs). The predicted no-effect concentration for water and sediment (PNEC sub(ater)) for all compounds, PNEC sub(sed) for hydrophobical ones) for 31 compounds was derived from the acute and chronic toxicity data of aquatic organisms. Environment concentrations of 16 pollutants were collected from published documents. Then the risk ratios (PEC/PNEC ratio) of these 16 pollutants were calculated and arranged. Among the 16 pollutants, anthracene, phenanthrene, naphthalene, fluoranthene, atrazine and malathion are likely to pose ecological risk to the environment of Liangmei Bay and Tianmu Lake in Taihu Lake, and Wuli Lake. Moreover, chlorpyrifos, tributyltin oxide and tricyclohexylhydroxytin have great potential of causing ecological risk, though no concentration data were reported.  
Keywords: Risk assessment  
Keywords: Aquatic organisms  
Keywords: Anthracene  
Keywords: Microbiology Abstracts C: Algology, Mycology & Protozoology; Ecology Abstracts; Aqualine Abstracts; Water Resources Abstracts; Pollution Abstracts; Risk Abstracts; Environment Abstracts  
Keywords: SW 3040:Wastewater treatment processes  
Keywords: Degradation  
Keywords: ENA 12:Oceans & Estuaries  
Keywords: Malathion  
Keywords: Models  
Keywords: tributyltin oxide  
Keywords: Lakes  
Keywords: K 03330:Biochemistry  
Keywords: Assessments  
Keywords: Pollutants  
Keywords: Chronic toxicity  
Keywords: China, People's Rep., Tai Hu L.  
Keywords: R2 23050:Environment  
Keywords: D 04060:Management and Conservation  
Keywords: Algae  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: Fluoranthene  
Keywords: Sensitivity  
Keywords: Data processing  
Keywords: Naphthalene  
Keywords: Toxicity  
Keywords: Aquatic ecosystems  
Keywords: Ecological Distribution  
Keywords: Sediments  
Keywords: Model Studies  
Keywords: Chlorpyrifos  
Keywords: Risk  
Keywords: Phenanthrene  
Keywords: Prevention  
Keywords: Water Pollution Effects  
Keywords: P 1000:MARINE POLLUTION  
Keywords: Atrazine  
Keywords: China, People's Rep., Jiangsu Prov., Wuli L. English. Date revised - 2012-05-01. Last updated - 2012-12-03. DOI - MD-0018706668; 16671733; 0254-6108. SubjectsTermNotLitGenreText - Risk assessment; Anthracene; Aquatic organisms; Fluoranthene; Data processing; Naphthalene; Aquatic ecosystems; Malathion; Sediments; Models; Chlorpyrifos; tributyltin oxide; Lakes; Phenanthrene; Pollutants; Chronic toxicity; Atrazine; Algae; Sensitivity; Prevention; Degradation; Toxicity; Risk; Assessments; Water Pollution Effects; Ecological Distribution; Model Studies; China, People's Rep., Tai Hu L.; China, People's Rep., Jiangsu Prov., Wuli L.

328. Jira, D.; Janousek, S.; Pikula, J.; Vitula, F., and Kejlova, K. Toxicity Hazard of Organophosphate Insecticide Malathion Identified by in Vitro Methods.   
Rec #: 8270  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: OBJECTIVES: Malathion is generally not classified as toxic. However, the toxicity seems to be species-dependent. Local and systemic toxicity data for birds are rare, but a decrease of wild bird densities in areas where malathion was applied was reported. Aim of the study was to extend knowledge on malathion toxicity on cellular and organ level and to evaluate embryotoxicity and genotoxicity for birds using the chick embryo model HET-CAM.  
ABSTRACT: METHODS: Skin and eye irritation was determined using **reconstructed skin and eye cornea tissues** and the **chorioallantoic membrane of chick embryo** to simulate conjunctiva. Cytotoxicity in 3T3 Balb/c fibroblast culture was determined to estimate acute systemic toxicity. Chick embryo model was further employed to evaluate acute embryotoxicity for birds (mortality and genotoxicity). Data were analysed by means of general linear models.  
ABSTRACT: RESULTS: Malathion is not a skin and eye irritant. Cytotoxicity in vitro test provided LD50 value of 616 mg/kg suggesting higher toxic potential than is generally published based on in vivo tests on laboratory rodents. Embryotoxicity studies revealed dose and age dependent mortality of chick embryos. Genotoxicity was identified by means of micronucleus test in erythroid cells isolated from chorioallantois vascular system of chick embryos.  
ABSTRACT: CONCLUSIONS: Using in vitro alternative toxicological methods, a higher toxic potential of malathion was demonstrated than is generally declared. An increased health and environmental hazard may occur in areas with intensive agricultural production. The environmental consequences of delayed effects and embryotoxicity for bird populations in areas exposed to organophosphate insecticides, such as malathion, are obvious.  
MESH HEADINGS: Animals  
MESH HEADINGS: BALB 3T3 Cells/cytology/\*drug effects  
MESH HEADINGS: Chick Embryo  
MESH HEADINGS: Chickens  
MESH HEADINGS: Chorioallantoic Membrane/cytology/\*drug effects  
MESH HEADINGS: Cornea/cytology/\*drug effects  
MESH HEADINGS: Dose-Response Relationship, Drug  
MESH HEADINGS: Embryo, Nonmammalian/cytology/\*drug effects  
MESH HEADINGS: Insecticides/\*toxicity  
MESH HEADINGS: Irritants/toxicity  
MESH HEADINGS: Linear Models  
MESH HEADINGS: Malathion/\*toxicity  
MESH HEADINGS: Mice  
MESH HEADINGS: Mitosis/drug effects  
MESH HEADINGS: Models, Biological  
MESH HEADINGS: Species Specificity  
MESH HEADINGS: Toxicity Tests, Acute eng

329. John, Harald; Eyer, Florian; Zilker, Thomas, and Thiermann, Horst. High-performance liquid-chromatographic tandem-mass spectrometric methods for atropinesterase-mediated enantioselective and chiral determination of R- and S-hyoscyamine in plasma. 2010 Nov 8-; 680, (1Çô2): 32-40.   
Rec #: 1420  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: S-hyoscyamine (S-hyo) is a toxic tropane alkaloid from plants of the solanacea family, which is extracted for pharmaceutical purposes thereby undergoing racemization (atropine). Merely the S-hyo enantiomer acts as an antagonist of muscarinic receptors (MR). Nevertheless, racemic atropine is clinically administered in e.g. ophthalmology and for symptomatic therapy of acute poisoning with organophosphorus compounds (OPCs, e.g. pesticides, nerve agents). However, very limited data are available of comparative pharmacokinetics of S- and R-enantiomers in humans or other species. Atropine/ Atropinesterase/ Chiral analysis/ Enantioselectivity/ Organophosphorus poisoning http://www.sciencedirect.com/science/article/pii/S0003267010011712

330. Johnson, Kirk. Going to War Against Grasshoppers. 2010 Jun 10: A.18.   
Rec #: 6960  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In the 1980s, four-engine Korean War-era tankers commissioned by the federal Department of Agriculture lumbered across the land dumping Malathion, a broad-spectrum insecticide that also wiped out many other species and has been linked to human health concerns.  
ISSN/ISBN: 03624331  
Keywords: Great Plains  
Keywords: General Interest Periodicals--United States  
Keywords: Pest control  
Keywords: Insects English. Copyright - Copyright New York Times Company Jun 10, 2010. Last updated - 2011-11-02. CODEN - NYTIAO. DOI - 2054367451; 52670991; 7818; NYTIAO; NYT; 171115-20100610

331. Jokanovi-ç, Milan. Current understanding of the mechanisms involved in metabolic detoxification of warfare nerve agents. 2009 Jul 10-; 188, (1): 1-10.   
Rec #: 1100  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: This study reviews current understanding of chemical, biochemical and toxicological aspects and mechanisms of metabolism of warfare nerve agents. Among enzymes participating in metabolism of nerve agents the role of A-esterases, serum cholinesterase and carboxylesterases is discussed. This article also discusses other aspects of metabolism of the agents such as protein binding and the role of tissue depots for these compounds. Organophosphorus/ Nerve agents/ Soman/ Sarin/ Tabun/ VX http://www.sciencedirect.com/science/article/pii/S0378427409001660

332. Jones, Robert T; Bakker, Saskia E; Stone, Deborah; Shuttleworth, Sally N; Boundy, Sam; Mccart, Caroline; Daborn, Phillip J; Ffrench-Constant, Richard H; Van Den Elsen, Jean Mh, and Jones, Robert T. Homology Modelling of Drosophila Cytochrome P450 Enzymes Associated With Insecticide Resistance. 2010 Oct; 66, (10): 1106-1115.   
Rec #: 4000  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: BACKGROUND: Overexpression of the cytochrome P450 gene Cyp6g1 confers resistance against DDT and a broad range of other insecticides in Drosophila melanogaster Meig. In the absence of crystal structures of CYP6G1 or complexes with its substrates, structural studies rely on homology modelling and ligand docking to understand P450-substrate interactions. RESULTS: Homology models are presented for CYP6G1, a P450 associated with resistance to DDT and neonicotinoids, and two other enzymes associated with insecticide resistance in D. melanogaster, CYP12D1 and CYP6A2. The models are based on a template of the X-ray structure of the phylogenetically related human CYP3A4, which is known for its broad substrate specificity. The model of CYP6G1 has a much smaller active site cavity than the template. The cavity is also 'V'-shaped and is lined with hydrophobic residues, showing high shape and chemical complementarity with the molecular characteristics of DDT. Comparison of the DDT-CYP6G1 complex and a non-resistant CYP6A2 homology model implies that tight-fit recognition of this insecticide is important in CYP6G1. The active site can accommodate differently shaped substrates ranging from imidacloprid to malathion but not the pyrethroids permethrin and cyfluthrin. CONCLUSION: The CYP6G1, CYP12D1 and CYP6A2 homology models can provide a structural insight into insecticide resistance in flies overexpressing P450 enzymes with broad substrate specificities.  
Keywords: Insecticides  
Keywords: Cytochrome  
Keywords: Residues  
Keywords: Drosophila melanogaster  
Keywords: DDT  
Keywords: permethrin  
Keywords: Enzymes  
Keywords: Pest control  
Keywords: Environment Abstracts  
Keywords: ENA 21:Wildlife  
Keywords: Pyrethroids  
Keywords: Malathion English. Date revised - 2012-06-01. Last updated - 2012-06-29. DOI - c1e15cb3-f177-44f6-bb81csamfg201; 16710351; 1526-4998. SubjectsTermNotLitGenreText - Cytochrome; Insecticides; Residues; DDT; permethrin; Enzymes; Pest control; Pyrethroids; Malathion; Drosophila melanogaster

333. Jose, Seena ; Jayesh, P; Mohandas, a; Philip, Rosamma; Bright Singh, Is, and Jose, Seena. Application of Primary Haemocyte Culture of Penaeus Monodon in the Assessment of Cytotoxicity and Genotoxicity of Heavy Metals and Pesticides. 2011 Apr; 71, (3): 169-177.   
Rec #: 3540  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Lack of shrimp cell lines has hindered the study of pollutants which adversely affects shrimp health and its export value. In this context a **primary haemocyte culture** developed from Penaeus monodon was employed for assessing the cytotoxicity and genotoxicity of two heavy metal compounds, cadmium chloride and mercuric chloride and two organophosphate insecticides, malathion and monocrotophos. Using MTT assay 12 h IC50 values calculated were 31.09 plus or minus 16.27 mu M and 5.52 plus or minus 1.16 mu M for cadmium chloride and mercuric chloride and 59.94 plus or minus 52.30 mg l super(-1) and 186.76 plus or minus 77.00 mg l super(-1) for malathion and monocrotophos respectively. Employing Comet assay, DNA damage inflicted by these pollutants on haemocytes were evaluated and the pollutants induced DNA damage in >60% of the cells. The study suggested that haemocyte culture could be used as a tool for quantifying cytotoxicity and genotoxicity of aquaculture drugs, management chemicals and pollutants.  
Keywords: Q3 01588:Effects of Aquaculture on the Environment  
Keywords: Chemicals  
Keywords: O 4020:Pollution - Organisms/Ecology/Toxicology  
Keywords: Q4 27710:Cell Culture & Fermentation  
Keywords: Heavy metals  
Keywords: Organophosphates  
Keywords: monocrotophos  
Keywords: Chlorides  
Keywords: ENA 12:Oceans & Estuaries  
Keywords: Pollution effects  
Keywords: Cell culture  
Keywords: Aquaculture  
Keywords: Malathion  
Keywords: Insecticides  
Keywords: Penaeidae  
Keywords: Pollutants  
Keywords: Hemocytes  
Keywords: Blood cells  
Keywords: X 24330:Agrochemicals  
Keywords: Drugs  
Keywords: Marine crustaceans  
Keywords: heavy metals  
Keywords: Penaeus monodon  
Keywords: Marine  
Keywords: Toxicology Abstracts; ASFA Aquaculture Abstracts; ASFA 1: Biological Sciences & Living Resources; Environment Abstracts; Pollution Abstracts; ASFA Marine Biotechnology Abstracts; Oceanic Abstracts  
Keywords: Shrimp culture  
Keywords: Genotoxicity  
Keywords: Environmental impact  
Keywords: Cadmium chloride  
Keywords: organophosphates  
Keywords: DNA damage  
Keywords: Cytotoxicity  
Keywords: Mercuric chloride  
Keywords: P 1000:MARINE POLLUTION  
Keywords: Pesticides  
Keywords: DNA  
Keywords: Culture effects  
Keywords: Q1 01584:Culture of other aquatic animals  
Keywords: Marine aquaculture  
Keywords: Comet assay English. Date revised - 2011-05-01. Last updated - 2012-11-20. DOI - 3345e4bd-d1f6-47b1-a8d9csamfg201; 14515068; CS1127582; 0141-1136. SubjectsTermNotLitGenreText - Cytotoxicity; Shrimp culture; Pollutants; Environmental impact; Pollution effects; Culture effects; Marine aquaculture; Blood cells; Marine crustaceans; Heavy metals; Genotoxicity; monocrotophos; Cadmium chloride; Cell culture; organophosphates; Aquaculture; Malathion; DNA damage; Insecticides; Mercuric chloride; Pesticides; Hemocytes; Comet assay; Drugs; Chemicals; Organophosphates; DNA; Chlorides; heavy metals; Penaeus monodon; Penaeidae; Marine

334. Joshi, Suresh C; Sharma, Preeti, and Sharma, Preeti. Male Reproductive Toxicity of Organophosphorous Compounds: a Review. 2011; 93, (7): 1486-1507.   
Rec #: 3820  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Fertility is declining in many countries and there has been substantial interest in the potential adverse effects of exposure to environmental hazardous chemicals, including pesticides on male reproduction. Organophosphorous compounds (organophosphates, OP) constitute a heterogeneous category of chemicals specifically designed for the control of pests or plant diseases. OP are known to produce reproductive toxicity, resulting in a decrease in the fertility levels of humans and animals. This review article mainly focused on toxicity of some OP such as acephate, chlorpyrifos, diazinon, dimethoate, fenitrothion, malathion, and monocrotophos especially dealing with reproductive toxicity in males. Furthermore, this review deals with mode of action and clinical syndromes of OP. Considerable lab studies on animals concluded that OP produce adverse effects on male reproductive system.  
Keywords: Fertility  
Keywords: Plant diseases  
Keywords: monocrotophos  
Keywords: organophosphates  
Keywords: Toxicity  
Keywords: Fenitrothion  
Keywords: Malathion  
Keywords: Reproductive system  
Keywords: Chlorpyrifos  
Keywords: Reviews  
Keywords: Pesticides  
Keywords: Reproduction  
Keywords: Dimethoate  
Keywords: Pests  
Keywords: X 24330:Agrochemicals  
Keywords: Toxicology Abstracts  
Keywords: Diazinon  
Keywords: Side effects English. Date revised - 2011-10-01. Last updated - 2012-11-20. DOI - e91023d7-793e-475f-889dcsamfg201; 15683285; 0277-2248; 1029-0486. SubjectsTermNotLitGenreText - Fertility; Plant diseases; monocrotophos; Toxicity; organophosphates; Fenitrothion; Reproductive system; Malathion; Chlorpyrifos; Reviews; Pesticides; Reproduction; Pests; Dimethoate; Diazinon; Side effects

335. Jusoh, Ahmad; Hartini, W. J. H.; Ali, NoraÇÖaini, and Endut, A. Study on the removal of pesticide in agricultural run off by granular activated carbon: Special Issue on Challenges in Environmental Science and Engineering, CESE-2010: Technological Advances in Waste Treatment for a Sustainable Future. 2011 May; 102, (9): 5312-5318.   
Rec #: 1280  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: In this batch study, the adsorption of malathion by using granular activated carbon with different parameters due to the particle size, dosage of carbons, as well as the initial concentration of malathion was investigated. Batch tests were carried out to determine the potential and the effectiveness of granular activated carbon (GAC) in removal of pesticide in agricultural run off. The granular activated carbon; coconut shell and palm shells were used and analyzed as the adsorbent material. The Langmuir and Freundlich adsorption isotherms models were applied to describe the characteristics of adsorption behavior. Equilibrium data fitted well with the Langmuir model and Freundlich model with maximum adsorption capacity of 909.1 mg/g. The results indicate that the GAC could be used to effectively adsorb pesticide (malathion) from agricultural runoff. Activated carbon/ Pesticide/ Batch studies/ Adsorption/ Agricultural run off http://www.sciencedirect.com/science/article/pii/S0960852410020377

336. Jusoh, Ahmad; Hartini, Wjh; Ali, Nora'aini; Endut, a, and Jusoh, Ahmad. Study on the Removal of Pesticide in Agricultural Run Off by Granular Activated Carbon. 2011 May; 102, (9): 5312-5318.   
Rec #: 3490  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this batch study, the adsorption of malathion by using granular activated carbon with different parameters due to the particle size, dosage of carbons, as well as the initial concentration of malathion was investigated. Batch tests were carried out to determine the potential and the effectiveness of granular activated carbon (GAC) in removal of pesticide in agricultural run off. The granular activated carbon; coconut shell and palm shells were used and analyzed as the adsorbent material. The Langmuir and Freundlich adsorption isotherms models were applied to describe the characteristics of adsorption behavior. Equilibrium data fitted well with the Langmuir model and Freundlich model with maximum adsorption capacity of 909.1 mg/g. The results indicate that the GAC could be used to effectively adsorb pesticide (malathion) from agricultural runoff.  
Keywords: Particle size  
Keywords: Data processing  
Keywords: Activated carbon  
Keywords: Carbon (activated)  
Keywords: Malathion  
Keywords: Models  
Keywords: ENA 06:Food & Drugs  
Keywords: Environment Abstracts; Biotechnology and Bioengineering Abstracts  
Keywords: W 30950:Waste Treatment & Pollution Clean-up  
Keywords: Carbon  
Keywords: Pesticides  
Keywords: Adsorption  
Keywords: Shells  
Keywords: Isotherms  
Keywords: Agricultural runoff  
Keywords: Runoff English. Date revised - 2011-04-01. Last updated - 2012-03-29. DOI - 9b1fbee8-eff6-488a-a620csaobj202; 14616339; 0960-8524. SubjectsTermNotLitGenreText - Particle size; Data processing; Carbon; Pesticides; Adsorption; Shells; Carbon (activated); Isotherms; Runoff; Malathion; Models; Activated carbon; Agricultural runoff

337. K+¦ck, Marianne; Farr+\_, Marinella; Mart+ˇnez, Elena; Gajda-Schrantz, Krisztina; Ginebreda, Antoni; Navarro, Asunci+ n; Alda, Miren L+ pez de, and Barcel+¦, Dami+á. Integrated ecotoxicological and chemical approach for the assessment of pesticide pollution in the Ebro River delta (Spain): Water Quality and Assessment under Scarcity. Prospects and challenges in Mediterranean watersheds. 2010 Mar 15-; 383, (1Çô2): 73-82.   
Rec #: 570  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Summary Pesticides/ Shellfish/ Ecotoxicity/ Water analysis/ Ebro River delta/ Monitoring http://www.sciencedirect.com/science/article/pii/S0022169409008233

338. K+¦ck-Schulmeyer, Marianne; Villagrasa, Marta; L+¦pez de Alda, Miren; C+\_spedes-S+ínchez, Raquel; Ventura, Francesc, and Barcel+¦, Dami+á. Occurrence and behavior of pesticides in wastewater treatment plants and their environmental impact. 2013 Aug 1-; 458Çô460, (0): 466-476.   
Rec #: 2120  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract Pesticides/ Risk assessment/ Wastewater treatment/ Water analysis/ LCÇôMS/MS http://www.sciencedirect.com/science/article/pii/S0048969713004312

339. Kadoum, A. M. and Sae, S. W. Effects of Some Organophosphorus Compounds and Their Metabolites on Sorghum-Grain Esterase and Certain Insects Attacking Sorghum Grain. 1970; 5, (3): 213-217.   
Rec #: 170  
Keywords: IN VITRO  
Call Number: NO IN VITRO (DZ,MLN,MLO)  
Notes: Chemical of Concern: DZ,MLN,MLO

340. Kaiser, Kristine and Kaiser, Kristine. Preliminary Study of Pesticide Drift Into the Maya Mountain Protected Areas of Belize. 2011 Jan; 86, (1): 56-59.   
Rec #: 6640  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In Belize, Central America, many farms surrounding the Protected Areas of the Maya Mountains rely heavily on the application of agrochemicals. The purpose of this study was to test whether orographic drift of glyphosate and organophosphates into the nearby Maya Mountain Protected Areas occurred by collecting phytotelmic water from seven sites over 3years. Regardless of location within the Maya Mountain Protected Areas, glyphosate was present; organophosphates were more common at ridge sites. Although glyphosate concentrations were low, due to the number of threatened species and the human use of stream water outside the Maya Mountain Protected Areas, better understanding of these effects is warranted.  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2011-02-01. Last updated - 2011-10-26. DOI - OB-dc6e8005-5dbb-4123-9a63mfgefd107; 14210298; 0007-4861; 1432-0800

341. Kamel, Alaa; Byrne, Christian; Vigo, Craig; Ferrario, Joseph; Stafford, Charles; Verdin, Gregory; Siegelman, Frederic; Knizner, Steven, and Hetrick, James. Oxidation of selected organophosphate pesticides during chlorination of simulated drinking water. 2009 Feb; 43, (2): 522-534.   
Rec #: 1030  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Ten organophosphate (OP) pesticides: phorate, disulfoton, terbufos, methidathion, bensulide, chlorethoxyfos, phosmet, methyl parathion, phostebupirim, and temephos were evaluated for their potential to undergo oxidation to their respective oxons and/or other oxidation analogues in laboratory water. Samples were collected at time intervals up to 72 h of chlorination and analyzed by both gas chromatographyÇômass selective detection (GCÇôMSD) and liquid chromatographyÇôtandem mass spectrometry (LCÇôMS/MS). The results show that methidathion and methyl parathion were stable in unchlorinated water, while all other OP pesticides were not stable over the 72 h exposure period. In chlorinated water, phorate and disulfoton formed stable sulfone oxons. Temephos formed stable dioxon sulfoxide and dioxon sulfone. Methidathion, bensulide, chlorethyoxyfos, methyl parathion, and phostebupirim formed stable oxons over the 72 h exposure period. Terbufos, phorate, disulfoton and temephos oxon sulfoxides; temephos sulfoxide; and phosmet oxon were initially formed but were not detected after 24 h. The data illustrate that organothiophosphate pesticides may form oxons and/or other oxidation analogues during chlorination in water treatment plants, which are persistent for at least 72 h. Organophosphate pesticides/ Water chlorination/ Oxidation products/ Oxons/ Sulfone oxons/ Sulfoxide oxons http://www.sciencedirect.com/science/article/pii/S0043135408004995

342. Kanagaraj, K.; Affrose, A.; Sivakolunthu, S., and Pitchumani, K. Highly selective fluorescent sensing of fenitrothion using per-6-amino-beta-cyclodextrin:Eu(III) complex. 2012; 35, 452-455.   
Rec #: 14020  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A unique, efficient, highly sensitive and selective fluorescent chemosensor for fenitrothion has been reported for the first time using per-6-amino-3-cyclodextrin:Eu(III) complex. Among the various pesticides, the sensitivity response is found to be in the order, fenitrothion (sic) quinalphos > methylparathion > parathion > methylparaoxon > paraoxon > fenchlorphos > profenofos > malathion. A detection limit as low as 1 x 10(-12) M for fenitrothion sensing is realized with a 2.4% relative standard deviation (RSD) of three consecutive runs. The per-6-amino-beta-cyclodextrin:Eu(III):pesticide complexes and their sensing mechanism are evidenced from emission, NMR, FT-IR, binding constant measurement, Job's plot, ICD spectra, ESI-MS, lifetime measurements and molecular modeling studies. The proposed sensing is a consequence of Absorption Energy Transfer Emission (AETE) process as a result of better encapsulation of fenitrothion inside the cavity of per-6-amino-beta-cyclodextrin:Eu(III) complex. The remarkable sensitivity and selectivity of fenitrothion compared to other OPs, is attributed to a more deeper binding and tighter fit of fenitrothion inside the CD cavity, which is evident from binding constant values and molecular modeling studies. This tighter fit ensures the replacement of two coordinating water molecules on Eu(III) ion, which may have contributed to the more selective sensing of fenitrothion. (C) 2012 Elsevier B.V. All rights reserved.  
Number of Volumes: 1  
ISI Document Delivery No.: 955QM <Go to ISI>://CCC:000305036000071

343. Kang, Eun-Jung; Seok, Su-Jin; Lee, Kwon-Hyun; Gil, Hyo-Wook; Yang, Jong-Oh; Lee, Eun-Young, and Hong, Sae-Yong. Factors for Determining Survival in Acute Organophosphate Poisoning. 2009 Dec; 24, (4): 362-367.   
Rec #: 7310  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organophosphate poisoning has a high mortality rate. Recently, differences among organophosphorus insecticides in human self-poisoning were reported. This study investigated the prognostic risk factors and the mortality of different organophosphates following acute organophosphate poisoning. This retrospective study included 68 patients with acute organophosphate poisoning. We investigated patient survival according to initial parameters, including the initial Acute Physiology and Chronic Health Evaluation (APACHE) II score, serum cholinesterase level, and hemoperfusion and evaluated the mortality according to organophosphate types. Thirteen of the 68 patients died. The agents responsible for mortality were different. The APACHE II score was a significant predictor of mortality (odds ratio [OR], 1.194; p<0.01; 95% confidence interval [CI], 1.089 to 1.309) and respiratory failure (OR, 1.273; p<0.01; 95% CI, 1.122 to 1.444). The mortality was 0% for dichlorvos, malathion, chlorpyrifos and profenofos. However, other organophosphates showed different mortality (16.7% for O-ethyl-O-4-nitrophenyl phenylphosphonothioate, 25% for phenthoate, 37.5% for phosphamidon, 50% for methidathion). The usefulness of hemoperfusion appears to be limited. The initial APACHE II score is a useful prognostic indicator, and different organophosphates have different mortality.  
Keywords: Acute Disease  
Keywords: Cholinesterases -- blood  
Keywords: Cholinesterases  
Keywords: Organophosphate Poisoning  
Keywords: Humans  
Keywords: Index Medicus  
Keywords: Retrospective Studies  
Keywords: Prognosis  
Keywords: Aged  
Keywords: APACHE  
Keywords: Aged, 80 and over  
Keywords: Adult  
Keywords: EC 3.1.1.8  
Keywords: Middle Aged  
Keywords: Poisoning -- mortality  
Keywords: Adolescent  
Keywords: Male  
Keywords: Female eng. Date completed - 2010-01-05. Date created - 2009-12-01. Date revised - 2013-05-31. SuppNotes - Cites: Lancet. 1977 Jan 1;1(8001):38-9[63670]; Cites: Crit Care Med. 1992 Nov;20(11):1538-43[1424696]; Cites: Crit Care Med. 1985 Oct;13(10):818-29[3928249]; Cites: Chest. 1994 Dec;106(6):1811-4[7988206]; Cites: Vet Hum Toxicol. 1997 Apr;39(2):84-5[9080632]; Cites: J Korean Med Sci. 2004 Apr;19(2):186-94[15082889]; Cites: Lancet. 2005 Oct 22-28;366(9495):1452-9[16243090]; Cites: QJM. 2008 May;101(5):371-9[18319295]; Cites: Artif Organs. 1979 Nov;3(4):341-5[533424]; Cites: Arch Toxicol. 1976 Jun 8;35(3):221-7[822806]; Cites: Ann R Coll Surg Engl. 1989 Nov;71(6):344-6[2604339]; Cites: S Afr Med J. 1987 Nov 7;72(9):593-7[3686293]; Cites: Ann Intern Med. 1968 Apr;68(4):875-82[5642969]; Cites: Nihon Eiseigaku Zasshi. 1993 Dec;48(5):955-65[8107298]; Cites: Intensive Care Med. 2001 Apr;27(4):694-9[11398695]; Cites: J Toxicol Clin Toxicol. 2002;40(7):903-10[12507060]; Cites: J Toxicol Clin Toxicol. 2004;42(4):343-7[15461241]; Cites: J Intensive Care Med. 2005 Nov-Dec;20(6):346-50[16280408]; Cites: Hum Exp Toxicol. 2007 Jul;26(7):573-8[17884960]. Last updated - 2013-05-31. DOI - MEDL-19949736; 19949736; PMC2784981; 1226-3303

344. Kao, H. L.; Liu, M. Y., and Sun, C. N. Green Rice Leafhopper Resistance to Malathion, Methyl Parathion, Carbaryl, Permethrin, and Fenvalerate in Taiwan. 1981; 6, 19-(ABS).   
Rec #: 1390  
Keywords: ABSTRACT  
Call Number: NO ABSTRACT (CBL,FNV,MLN,MP,PMR)  
Notes: Chemical of Concern: CBL,FNV,MLN,MP,PMR

345. Karami-Mohajeri, S. and Abdollahi, M. Toxic Influence of Organophosphate, Carbamate, and Organochlorine Pesticides on Cellular Metabolism of Lipids, Proteins, and Carbohydrates: A Systematic Review. 2011; 30, (9): 1119-1140.   
Rec #: 1540  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ACP,AMZ,CBF,CBL,CPY,DDVP,DMT,DZ,ES,FNT,MDT,MLN,MP,PRT), NO REVIEW (ACP,AMZ,CBF,CBL,CPY,DDVP,DMT,DZ,ES,FNT,MDT,MLN,MP,PRT)  
Notes: Chemical of Concern: ACP,AMZ,AND,CBF,CBL,CPY,DDE,DDT,DDVP,DMT,DXN,DZ,ES,FNT,FNTH,MDT,MLN,MP,PRT,TCDD

346. Karaouzas, I.; Lambropoulou, D. A.; Skoulikidis, N. T., and Albanis, T. A. Levels, sources and spatiotemporal variation of nutrients and micropollutants in small streams of a Mediterranean River basin. 2011; 13, 3064-3074.   
Rec #: 14040  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this study, nutrients, trace metals and priority pesticide compounds were investigated for the first time in water and sediment samples in streams of the Evrotas River basin (S.E. Greece) from 2006 to 2008. The most important sources of contamination were from the entry of pesticides and nutrients into surface waters and sediments as a result of the intensive agricultural activity as well as from the uncontrolled disposal of olive mill and citrus processing wastewaters. Aquatic risk assessment revealed that all insecticides detected showed high risk, suggesting adverse effects on the stream biota. Among the metals analyzed, Cr, Ni and Ba presented the highest concentrations in sediments, however, due to natural geological processes. Multivariate statistical techniques applied for data compression, exploration and interpretation proved to be useful tools for identifying the most critical pollutants affecting the surface water quality. The findings of this study suggest that the inclusion of streams with small catchment areas into WFD monitoring and assessment programs is essential, especially those of the Mediterranean region.  
Number of Volumes: 11  
ISI Document Delivery No.: 854XJ <Go to ISI>://CCC:000297527800011

347. Karyab, Hamid; Mahvi, Amir Hossein; Nazmara, Shahrokh; Bahojb, Akram, and Karyab, Hamid. Determination of Water Sources Contamination to Diazinon and Malathion and Spatial Pollution Patterns in Qazvin, Iran. 2013 Jan; 90, (1): 126-131.   
Rec #: 2420  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A questionnaire study and field visit showed that diazinon and malathion were the most commonly used pesticides in Qazvin province, Iran. Concentrations of these pesticides were determined in water sources; include springs, wells and Shahrood River. Springs water samples had the best water quality; but deep wells were the most polluted water samples. Diazinon was detected in 46.6 % of the samples, while malathion occurrences frequency was in 13.3 % of the samples. Diazinon and malathion were detected in maximum concentration of 19.44 and 18.12 mu g L super(-1) , respectively. The obtained results showed that diazinon was detected in higher than life-time health advisories in wells and in Shahrood River samples; so, it can bring up threats to human health. Interpolation of diazinon and malathion in water sources showed that diazinon had the most widely scattering condition in deep wells. Also, cross validation with the root mean square error (RMSE) indicated that the natural neighbor interpolation of malathion has the minimum RMSE.  
Keywords: Iran  
Keywords: Contamination  
Keywords: Water sampling  
Keywords: Springs  
Keywords: Ecological distribution  
Keywords: Health & Safety Science Abstracts; Environment Abstracts; Water Resources Abstracts; Aqualine Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; Pollution Abstracts; Toxicology Abstracts  
Keywords: Environmental health  
Keywords: Deep Wells  
Keywords: Q5 01502:Methods and instruments  
Keywords: Water quality  
Keywords: Malathion  
Keywords: Public health  
Keywords: Agricultural Chemicals  
Keywords: H 5000:Pesticides  
Keywords: Water springs  
Keywords: X 24330:Agrochemicals  
Keywords: Pollution  
Keywords: Toxicology  
Keywords: Rivers  
Keywords: Inventories  
Keywords: SW 5040:Data acquisition  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Water Quality  
Keywords: AQ 00008:Effects of Pollution  
Keywords: Water pollution  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Pesticides  
Keywords: Water wells  
Keywords: Diazinon English. Date revised - 2013-02-01. Number of references - 24. Last updated - 2013-05-17. DOI - 8092dc83-92d9-4bab-a1afmfgefd108; 17668454; CS1325066; 0007-4861; 1432-0800. SubjectsTermNotLitGenreText - Contamination; Ecological distribution; Pesticides; Water quality; Toxicology; Water pollution; Public health; Rivers; Inventories; Water springs; Diazinon; Pollution; Malathion; Water sampling; Environmental health; Water wells; Agricultural Chemicals; Springs; Water Quality; Deep Wells; Iran. Banks, Kenneth E.; Hunter, David H.; Wachal, David J. Diazinon in surface waters before and after a federally-mandated ban. Science of the Total Environment, 350. 1-3 (2005): 86-93. Elsevier. Bazrafshan, E; Mahvi, A H; Nasseri, S; Mesdaghinia, A R; et al. Removal of cadmium from industrial effluents by electrocoagulation process using iron electrodes. Iranian Journal of Environmental Health Science & Engineering, 3. 4 (2006): 261-266. 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Karpouzas, Dimitrios G.; Singh, Brajesh K. Microbial degradation of organophosphorus xenobiotics: Metabolic pathways and molecular basis. ADVANCES IN MICROBIAL PHYSIOLOGY, VOL 51, 51. (2006): 119-185. ACADEMIC PRESS LTD. Kawahara, Junko; Yoshinaga, Jun; Yanagisawa, Yukio. Dietary exposure to organophosphorus pesticides for young children in Tokyo and neighboring area. Science of the Total Environment, 378. 3 (2007): 263-268. Elsevier. Lasram, Mohamed Montassar; Annabi, Alya Berrahal; Rezg, Raja; Elj, Naziha; et al. Effect of short-time malathion administration on glucose homeostasis in Wistar rat. PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY, 92. 3 (2008): 114-119. ACADEMIC PRESS INC ELSEVIER SCIENCE. Leong, Kok Hoong; Benjamin Tan, L.L.; Mustafa, Ali Mohd. Contamination levels of selected organochlorine and organophosphate pesticides in the Selangor River, Malaysia between 2002 and 2003. Chemosphere, 66. 6 (2007): 1153-1159. Elsevier Ltd. 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348. Kaushik, Geetanjali; Satya, Santosh, and Naik, S. N. Food processing a tool to pesticide residue dissipation Çô A review. 2009 Jan; 42, (1): 26-40.   
Rec #: 910  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Food safety is an area of growing worldwide concern on account of its direct bearing on human health. The presence of harmful pesticide residues in food has caused a great concern among the consumers. Hence, world over to tackle food safety issues, organic farming is being propagated. However, due to several reasons, diffusion and acceptance of this approach in developing countries has been very slow. Therefore, it is important in the transient phase that some pragmatic solution should be developed to tackle this situation of food safety. Food processing treatments such as washing, peeling, canning or cooking lead to a significant reduction of pesticide residues. In this background this paper reviews the common food processing operations along with the degree of residue removal in each process. The processes reviewed include: baking, bread making, dairy product manufacture, drying, thermal processing, fermentation, freezing, infusion, juicing, malting, milling, parboiling, peeling, peeling and cooking, storage, storage and milling, washing, washing and cooking, washing and drying, washing and peeling, washing peeling and juicing and wine making. Extensive literature review demonstrates that in most cases processing leads to large reductions in residue levels in the prepared food, particularly through washing, peeling and cooking operations. Pesticide residue/ Transient/ Processing/ Review/ Dissipation http://www.sciencedirect.com/science/article/pii/S0963996908001907

349. Kawai, S. and Nakayama, A. Effects of Organotins on the Drug Metabolizing Enzymes in Fish. 2009; 14, 235-249.   
Rec #: 180  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (AMSV,CBL,Cu,DU,ES,MLN,NAPH,PAHs,PQT), NO REVIEW (AMSV,CBL,Cu,DU,ES,MLN,NAPH,PAHs,PQT)  
Notes: Chemical of Concern: 3CE,ACD,AMSV,BAP,CBL,CHD,Cu,DDT,DLD,DU,EN,ES,HCCH,HPT,MLN,MRX,NAPH,PCB,PPCP,PQT,TXP

350. Keith, J. O. and Flickinger, E. L. Effects of Malathion on the Abundance and Food Habits of Songbirds. 1964: 46-(Publ As 2187).   
Rec #: 660  
Keywords: PUBL AS  
Call Number: NO PUBL AS (MLN)  
Notes: Chemical of Concern: MLN

351. Keplinger, M. L. and Deichmann, W. B. Acute Toxicity of Combinations of Pesticides. 1967; 10, (3): 586-595.   
Rec #: 960  
Keywords: MIXTURE  
Call Number: NO MIXTURE (CBL,DZ,MLN)  
Notes: Chemical of Concern: AND,CBL,CHD,DDT,DLD,DZ,EPRN,MLN,MXC,PRN,TXP

352. Khaled, E.; Hassan, H. N.; Mohamed, G. G.; Ragab, F. A., and Seleim, A. E. Disposable Potentiometric Sensors for Monitoring Cholinesterase Activity.   
Rec #: 9360  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: A highly sensitive disposable screen-printed butyrylcholine (BuCh) potentiometric sensor, based on heptakis (2,3,6-tri-o-methyl)-&beta;-cyclodextrin (&beta;-CD) as ionophore, was developed for butyrylcholinesterase (BuChE) activity monitoring. The proposed sensors have been characterized and optimized according to the constituents of homemade printing carbon ink including &beta;-CD, anionic sites, and plasticizer. The fabricated sensor showed Nernstian responses from 10(-6) to 10(-2)mol L(-1) with detection limit of 8 &times; 10(-7)mol L(-1), fast response time (1.6s) and adequate shelf-life (6 months). Improved selectivity towards BuCh with minimal interference from choline (Ch) was achieved and the sensor was used for determination of 0.06-1.25 U mL(-1) BuChE. The developed disposable sensors have been successfully applied for real-time intoxication monitoring through assaying cholinesterases (ChEs) activity in human serum. Determination of organophosphate pesticide was conducted by measuring their inhibition of BuChE with successful assaying of malathion in insecticide samples with high accuracy and precision.  
MESH HEADINGS: \*Biosensing Techniques  
MESH HEADINGS: Butyrylcholinesterase/\*analysis/blood  
MESH HEADINGS: Calibration  
MESH HEADINGS: Carbon/chemistry  
MESH HEADINGS: Choline/analogs &amp  
MESH HEADINGS: derivatives/analysis  
MESH HEADINGS: Cholinesterases/\*analysis/blood  
MESH HEADINGS: Electrodes  
MESH HEADINGS: Humans  
MESH HEADINGS: Hydrogen-Ion Concentration  
MESH HEADINGS: Ionophores  
MESH HEADINGS: Malathion/analysis  
MESH HEADINGS: Organophosphates/chemistry  
MESH HEADINGS: Pesticides/pharmacology  
MESH HEADINGS: Potentiometry/\*methods  
MESH HEADINGS: Reproducibility of Results  
MESH HEADINGS: beta-Cyclodextrins/analysis eng

353. Khan, M. A. Q. Elimination of Pesticides by Aquatic Animals. 1977: 107-125.   
Rec #: 1130  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (24D,24DXY,AZ,As,CPY,DQT,DQTBr,DZ,MLN,SZ), NO REVIEW (24D,24DXY,AZ,As,CPY,DQT,DQTBr,DZ,MLN,SZ)  
Notes: Chemical of Concern: 24D,24DXY,AZ,As,AsO4Na,CHD,CPY,DDT,DLD,DQT,DQTBr,DZ,EDT,EPRN,HCCH,HPT,MLN,MXC,PPCP,PRN,SZ

354. Khodarahmpour, Z; Hamidi, J, and Khodarahmpour, Z. Study of Yield and Yield Components of Corn (Zea Mays L.) Inbred Lines to Drought Stress. 2012 Feb 14; 11, (13): 3099-3105.   
Rec #: 2800  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Several strains of bacteria were successfully isolated from effluent storage pools of factories producing pesticides and from soil moisture around them. The isolates were capable of utilizing chlorpyrifos (Cp) as the sole source of carbon, phosphorus and energy. Isolates were identified based on 16SrRNA sequence analysis and were named IRLM.1, IRLM.2, IRLM.3, IRLM.4, and IRLM.5. IRLM.1 was able to grow at concentrations of chlorpyrifos up to 2000 mg/L and was selected as a preferable isolate for further analysis. The amount of the degraded Cp and the amount of metabolite 3,5,6-trichloropyridinol (TCP) produced were assessed in IRLM.1 by using high performance liquid chromatography (HPLC) techniques. Additionally, the location of the chlorpyrifos-degrading enzyme was determined by comparing the activity of intact bacteria to cytoplasm activity. Our study reveals that Cp-degrading enzyme of IRLM.1 is cytoplasmic and 10 mu l cytoplasm isolated from 0.05 g dry-weight bacteria can degrade 50% of 2 mM Cp in 2 min. Furthermore, the HPLC analysis showed accumulation of TCP in the medium, revealing that IRLM.1 was able to degrade Cp without being affected by the antimicrobial activity of TCP. Moreover, results show that the IRLM.1 isolate could grow and utilize diazinon and malathion as the sole source of carbon, phosphorus and energy. Thus IRLM.1 can successfully participate in efficient degradation of organophosphorus compounds (OPs).  
Keywords: High-performance liquid chromatography  
Keywords: Antimicrobial activity  
Keywords: Organophosphorus compounds  
Keywords: Phosphorus  
Keywords: Stress  
Keywords: Enzymes  
Keywords: Metabolites  
Keywords: Effluents  
Keywords: Malathion  
Keywords: Chlorpyrifos  
Keywords: Carbon  
Keywords: Zea mays  
Keywords: Cytoplasm  
Keywords: Energy  
Keywords: Pesticides  
Keywords: Biotechnology and Bioengineering Abstracts  
Keywords: W 30915:Pharmaceuticals & Vaccines  
Keywords: Inbreeding  
Keywords: Soil moisture  
Keywords: Diazinon  
Keywords: Droughts English. Date revised - 2012-06-01. Last updated - 2013-03-11. DOI - MD-0018775909; 16778186; 1684-5315. SubjectsTermNotLitGenreText - High-performance liquid chromatography; Antimicrobial activity; Organophosphorus compounds; Phosphorus; Enzymes; Stress; Metabolites; Effluents; Malathion; Chlorpyrifos; Carbon; Energy; Cytoplasm; Pesticides; Inbreeding; Soil moisture; Diazinon; Droughts; Zea mays

355. Kim, Jun-Ran; Ahn, Young-Joon, and Ahn, Young-Joon. Identification and Characterization of Chlorpyrifos-Methyl and 3,5,6-Trichloro-2-Pyridinol Degrading Burkholderia Sp. Strain Kr100. 2009 Jul; 20, (4): 487-497.   
Rec #: 4820  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A chlorpyrifos-methyl (CM) degrading bacterium (designated strain KR100) was isolated from a Korean rice paddy soil and was further tested for its sensitivity against eight commercial antibiotics. Based on morphological, biochemical, and molecular characteristics, this bacterium showed greatest similarity to members of the order Burkholderiales and was shown to be most closely related to members of the Burkholderia cepacia group. Strain KR100 hydrolyzed CM to 3,5,6-trichloro-2-pyridinol (TCP) and utilized TCP as the sole source of carbon for its growth. The isolate was also able to degrade chlorpyrifos, dimethoate, fenitrothion, malathion, and monocrotophos at 300 mu g/ml but diazinon, dicrotophos, parathion, and parathion-methyl at 100 mu g/ml. The ability to degrade CM was found to be encoded on a single plasmid of ~50kb, pKR1. Genes encoding resistance to amphotericin B, polymixin B sulfate, and tetracycline were also located on the plasmid. This bacterium merits further study as a potential biological agent for the remediation of soil, water, or crop contaminated with organophosphorus compounds because of its greater biodegradation activity and its broad specificity against a range of organophosphorus insecticides.  
Keywords: A 01380:Plant Protection, Fungicides & Seed Treatments  
Keywords: Sulfates  
Keywords: Q5 01503:Characteristics, behavior and fate  
Keywords: Bioremediation  
Keywords: Biodegradation  
Keywords: Specificity  
Keywords: Biochemistry  
Keywords: P 5000:LAND POLLUTION  
Keywords: monocrotophos  
Keywords: EE 30:Soil Pollution: Monitoring, Control & Remediation  
Keywords: Antibiotics  
Keywords: Burkholderia cepacia  
Keywords: Tetracyclines  
Keywords: Strain  
Keywords: Malathion  
Keywords: Crops  
Keywords: Environmental Studies  
Keywords: J 02410:Animal Diseases  
Keywords: Soil  
Keywords: Carbon  
Keywords: Insecticides  
Keywords: Resistance  
Keywords: Rice fields  
Keywords: SW 3020:Sources and fate of pollution  
Keywords: AQ 00002:Water Quality  
Keywords: Sensitivity  
Keywords: Amphotericin B  
Keywords: Microbiology Abstracts B: Bacteriology; Pollution Abstracts; Water Resources Abstracts; Environmental Engineering Abstracts; Aqualine Abstracts; Microbiology Abstracts A: Industrial & Applied Microbiology; ASFA 3: Aquatic Pollution & Environmental Quality  
Keywords: Organophosphorus compounds  
Keywords: carbon sources  
Keywords: Oryza sativa  
Keywords: Fenitrothion  
Keywords: Strains  
Keywords: Plasmids  
Keywords: Water pollution  
Keywords: Sulfate  
Keywords: Chlorpyrifos  
Keywords: Pesticides  
Keywords: Remediation  
Keywords: W 30915:Pharmaceuticals & Vaccines  
Keywords: Dimethoate  
Keywords: Diazinon  
Keywords: dimethoate  
Keywords: Pollution control  
Keywords: Parathion English. Date revised - 2010-02-01. Last updated - 2011-11-03. DOI - OB-MD-0010935230; 11717657; CS1009301; 0923-9820; 1572-9729. SubjectsTermNotLitGenreText - Insecticides; Biodegradation; Specificity; Pesticides; Antibiotics; Plasmids; Strains; Water pollution; Pollution control; Amphotericin B; Organophosphorus compounds; monocrotophos; Fenitrothion; Tetracyclines; Malathion; Crops; Sulfate; Soil; Chlorpyrifos; Carbon; Rice fields; Dimethoate; Diazinon; Parathion; Sulfates; Sensitivity; Bioremediation; Biochemistry; carbon sources; dimethoate; Resistance; Remediation; Strain; Oryza sativa; Burkholderia cepacia

356. Kingsbury, P. D. A History of the Effects of Aerial Forest Spraying in Canada on Aquatic Fauna. 1976: 43 p.   
Rec #: 190  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (FNT,MLN,PPX,TCF), NO REVIEW (FNT,MLN,PPX,TCF)  
Notes: Chemical of Concern: DDT,FNT,MLN,PPHD,PPX,TCF

357. Kitos, P. A. and Suntornwat, O. Teratogenic Effects of Organophosphorus Compounds. 1992: 387-417.   
Rec #: 1290  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (CPY,DCTP,DDVP,DZ,FNT,MLN,MP,MTM,MVP,TCF), NO REVIEW (CPY,DCTP,DDVP,DZ,FNT,MLN,MP,MTM,MVP,TCF)  
Notes: Chemical of Concern: CPY,DCTP,DDVP,DEM,DZ,EPRN,ETN,FNT,FNTH,MLN,MP,MTM,MVP,PPHD,PRN,TCF

358. Kleinow, K. M.; Melancon, M. J., and Lech, J. J. Biotransformation and Induction: Implications for Toxicity, Bioaccumulation and Monitoring of Environmental Xenobiotics in Fish. 1987; 71, 105-119.   
Rec #: 1000  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (24DXY,ABA,FNT,MLN,MLT,NAPH,PAHs,PCP,RTN), NO REVIEW (24DXY,ABA,FNT,MLN,MLT,NAPH,PAHs,PCP,RTN)  
Notes: Chemical of Concern: 24DXY,ABA,AND,DDT,DLD,DMN,FNT,MLN,MLT,MRX,NAPH,PCP,RTN

359. Knaak, J. B. and O'Brien, R. D. Effect of EPN on In Vitro Metabolism of Malathion by the Rat and Dog. 1969; 8, 198-203.   
Rec #: 670  
Keywords: NOT PURSUING,IN VITRO  
Call Number: NO IN VITRO (MLN)  
Notes: Chemical of Concern: MLN

360. Kne++evi-ç, Zorka and Serdar, Maja. Screening of fresh fruit and vegetables for pesticide residues on Croatian market. 2009 Apr; 20, (4): 419-422.   
Rec #: 1630  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: The aim of this study was to investigate pesticide residues in market foods in Croatia. A total of 240 samples of fresh fruit and vegetables from import and domestic production were analyzed. Pesticide resides were determined by gas chromatography with mass selective detector (GCÇôMSD). Sample extract was cleaned up using gel permeation chromatography (GPC). In 66.7% of the samples no residues were found, 25.8% of samples contained pesticide residues at or below MRL, and 7.5% of samples contained pesticide residues above MRL. Most frequently found pesticides were imazalil (found in 35 samples) and chlorpyrifos (found in 24 samples). The findings of this study pointed to the following recommendations: the need for a monitoring program for pesticide residues in food crops, especially imported food crops. Pesticides/ Fruit/ Vegetables http://www.sciencedirect.com/science/article/pii/S0956713508001850

361. Kne++evi-ç, Zorka; Serdar, Maja, and Ahel, Marijan. Risk assessment of the intake of pesticides in Croatian diet. 2012 Jan; 23, (1): 59-65.   
Rec #: 1620  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: A total of 866 samples of 28 different kinds of fresh fruits and vegetables from import and domestic production were analyzed. In 67.1% of the samples no residues were found, 27.3% of samples contained pesticide residues at or below maximum residue limit (MRL), and 5.6% of samples contained pesticide residues above MRL. In this study, the exposure to pesticide residues through fruit and vegetable consumption is evaluated based on the 2007Çô2009 surveillance data. According to the results the long-term exposure of consumers did not raise health concerns. The short-term exposure assessment revealed that for 12 food samples analyzed the acute reference dose (ARfD) might have been exceeded if the food sample was consumed in high amounts. The short-term risk assessment could not be performed for 7 pesticides because there are no available data on acute reference doses. Risk assessment/ Pesticides/ Fruits/ Vegetables http://www.sciencedirect.com/science/article/pii/S0956713511002404

362. Knudsen, Thomas B; Houck, Keith a; Sipes, Nisha S; Singh, Amar V; Judson, Richard S; Martin, Matthew T; Weissman, Arthur; Kleinstreuer, Nicole C; Mortensen, Holly M; Reif, David M; Rabinowitz, James R; Setzer, Rwoodrow; Richard, Ann M; Dix, David J; Kavlock, Robert J, and Reif, David M. Activity Profiles of 309 Toxcast(Tm) Chemicals Evaluated Across 292 Biochemical Targets. 2011 Mar 28; 282, (1-2): 1-15.   
Rec #: 6470  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Understanding the potential health risks posed by environmental chemicals is a significant challenge elevated by the large number of diverse chemicals with generally uncharacterized exposures, mechanisms, and toxicities. The present study is a performance evaluation and critical analysis of assay results for an array of 292 high-throughput cell-free assays aimed at preliminary toxicity evaluation of 320 environmental chemicals in EPA's ToxCast(TM) project (Phase I). The chemicals (309 unique, 11 replicates) were mainly precursors or the active agent of commercial pesticides, for which a wealth of in vivo toxicity data is available. Biochemical HTS (high-throughput screening) profiled cell and tissue extracts using semi-automated biochemical and pharmacological methodologies to evaluate a subset of G-protein coupled receptors (GPCRs), CYP450 enzymes (CYPs), kinases, phosphatases, proteases, HDACs, nuclear receptors, ion channels, and transporters. The primary screen tested all chemicals at a relatively high concentration 25 mu M concentration (or 10 mu M for CYP assays), and a secondary screen re-tested 9132 chemical-assay pairs in 8-point concentration series from 0.023 to 50 mu M (or 0.009-20 mu M for CYPs). Mapping relationships across 93,440 chemical-assay pairs based on half-maximal activity concentration (AC50) revealed both known and novel targets in signaling and metabolic pathways. The primary dataset, summary data and details on quality control checks are available for download at http://www.epa.gov/ncct/toxcast/.  
Keywords: Risk assessment  
Keywords: Chemicals  
Keywords: Biochemistry  
Keywords: Q5 01502:Methods and instruments  
Keywords: Ion channels  
Keywords: Metabolic pathways  
Keywords: Proteinase  
Keywords: high-throughput screening  
Keywords: Mapping  
Keywords: X 24330:Agrochemicals  
Keywords: Phosphatase  
Keywords: Toxicology  
Keywords: Screening  
Keywords: Histone deacetylase  
Keywords: Pharmacy And Pharmacology  
Keywords: Data processing  
Keywords: double prime G protein-coupled receptors  
Keywords: Nuclear receptors  
Keywords: Receptors  
Keywords: Enzymes  
Keywords: Toxicity  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: EPA  
Keywords: Quality control  
Keywords: Pesticides  
Keywords: Water Resources Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; Environment Abstracts; Toxicology Abstracts  
Keywords: Signal transduction English. Date revised - 2011-10-01. Last updated - 2011-12-13. DOI - OB-bdba0d4a-2be7-4b03-9c09csamfg201; 14515435; CS1147059; 0300-483X. SubjectsTermNotLitGenreText - Screening; Quality control; Pesticides; Receptors; Phosphatase; Toxicology; Histone deacetylase; Data processing; double prime G protein-coupled receptors; Nuclear receptors; Enzymes; Toxicity; Ion channels; Metabolic pathways; Proteinase; high-throughput screening; Mapping; Signal transduction; Risk assessment; Chemicals; EPA; Biochemistry

363. Knutson, A. E.; Butler, J.; Bernal, J.; Bogran, C., and Campos, M. Impact of Area-Wide Malathion on Predatory Arthropods and Secondary Pests in Cotton During Boll Weevil Eradication in Texas. Texas AgriLife Research and Extension Center, 17360 Coit Road, Dallas, TX 75252, USA//: 2011; 30, (4): 456-467.   
Rec #: 1880  
Keywords: SURVEY  
Call Number: NO SURVEY (MLN)  
Notes: Chemical of Concern: MLN

364. Kock-Schulmeyer, Marianne; Ginebreda, Antoni; Gonzalez, Susana; Cortina, Jose Luis; De Alda, Miren Lopez; Barcelo, Damia, and Kock-Schulmeyer, Marianne. Analysis of the Occurrence and Risk Assessment of Polar Pesticides in the Llobregat River Basin (Ne Spain). 2012 Jan; 86, (1): 8-16.   
Rec #: 5950  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Contamination of surface waters by pesticides continues to be the focus of concern for water authorities due to the growing evidence of their deleterious effects on aquatic life. In this context, the present work investigates the occurrence of 16 selected pesticides belonging to the classes of triazines, phenylureas, organophosphates, chloroacetanilides and thiocarbamates in surface waters from the Llobregat River (NE Spain) and some of its tributaries (Anoia and Rubi) and assesses their potential impact on the aquatic organisms by applying a recently developed index, the Short-term Pesticide Risk Index for the Surface Water System (PRISW-1), which takes into account the pesticides concentrations and their overall toxicity against three aquatic organisms (algae, Daphnia, and fish). Chemical analysis, performed by means of a fully automated method based on isotope dilution on-line solid phase extraction-liquid chromatography-electrospray-tande m mass spectrometry (on-line SPE-LC-ESI-MS/MS ), revealed diuron and diazinon as the most ubiquitous and abundant compounds with levels up to 818 and 132ng L super(-1), respectively. Total pesticide concentrations, which in only 1 out of 66 samples surpassed 500ng L super(-1), were higher in the tributaries than in the river but their contribution in terms of mass-loads to the overall pesticide pollution of the Llobregat River was relatively small. Contamination increased downstream of the river and was clearly influenced by rainfall and hence river flow. Application of the PRISW-1 index indicated that, although pesticides levels fulfilled the European Union Environmental Quality Standards (EQS) for surface waters, the existing pesticide contamination poses a low to high ecotoxicological risk for aquatic organisms, that algae and macro-invertebrates are at higher risk than fish, and that the organophosphates diazinon and malathion and the phenylurea diuron are the major contributors to the overall toxicity and therefore the most problematic compounds.  
Keywords: Risk assessment  
Keywords: Aquatic organisms  
Keywords: Isotopes  
Keywords: Contamination  
Keywords: Spain, Cataluna, Llobregat R.  
Keywords: Surface water  
Keywords: Pollution Abstracts; Microbiology Abstracts C: Algology, Mycology & Protozoology; Risk Abstracts; Water Resources Abstracts; Environment Abstracts; Meteorological & Geoastrophysical Abstracts; Aqualine Abstracts  
Keywords: Organophosphates  
Keywords: Spain  
Keywords: Rainfall  
Keywords: Mass spectrometry  
Keywords: Automation  
Keywords: diuron  
Keywords: M2 551.578.1:Liquid (551.578.1)  
Keywords: Surface Water  
Keywords: thiocarbamates  
Keywords: Malathion  
Keywords: Mass spectroscopy  
Keywords: triazine  
Keywords: Agricultural Chemicals  
Keywords: Pesticide pollution  
Keywords: Risk factors  
Keywords: R2 23050:Environment  
Keywords: Algae  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: Rivers  
Keywords: River flow  
Keywords: SW 3050:Ultimate disposal of wastes  
Keywords: Diuron  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: K 03450:Ecology  
Keywords: River basins  
Keywords: Daphnia  
Keywords: organophosphates  
Keywords: Toxicity  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Risk  
Keywords: European Union  
Keywords: Water Pollution Effects  
Keywords: phenylurea  
Keywords: Pesticides  
Keywords: Pesticides in river water  
Keywords: Environmental quality  
Keywords: Fish  
Keywords: Diazinon English. Date revised - 2011-12-01. Last updated - 2012-09-10. DOI - aa471c0f-cccb-4bed-bba6csamfg201; 16077184; 0045-6535. SubjectsTermNotLitGenreText - Risk assessment; Rivers; Aquatic organisms; Isotopes; Contamination; Diuron; Surface water; Rainfall; Automation; River basins; Toxicity; organophosphates; thiocarbamates; Malathion; Mass spectroscopy; triazine; Pesticide pollution; Risk factors; Pesticides; phenylurea; Environmental quality; Diazinon; Algae; River flow; Pesticides in river water; Mass spectrometry; Organophosphates; diuron; Fish; Risk; Agricultural Chemicals; Water Pollution Effects; Surface Water; Daphnia; European Union; Spain, Cataluna, Llobregat R.; Spain

365. Koenig, S.; Guillen, K., and Sole, M. Comparative Xenobiotic Metabolism Capacities and Pesticide Sensitivity in Adults of Solea solea and Solea senegalensis. 2013; 157, (4): 329-336.   
Rec #: 1860  
Keywords: IN VITRO  
Call Number: NO IN VITRO (CPY,CPYO,DDVP,MLO)  
Notes: Chemical of Concern: CPY,CPYO,Conazoles,DDVP,KTZ,MLO,PPCP,PPCP2011

366. Kojima, Hiroyuki; Sata, Fumihiro; Takeuchi, Shinji; Sueyoshi, Tatsuya; Nagai, Tadanori, and Kojima, Hiroyuki. Comparative Study of Human and Mouse Pregnane X Receptor Agonistic Activity in 200 Pesticides Using in Vitro Reporter Gene Assays. 2011 Feb 27; 280, (3 ): 77-87.   
Rec #: 6570  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The nuclear receptor, pregnane X receptor (PXR), is a ligand-dependent transcription factor that regulates genes involved in xenobiotic metabolism. Recent studies have shown that PXR activation may affect energy metabolism as well as the endocrine and immune systems. In this study, we characterized and compared the agonistic activities of a variety of pesticides against human PXR (hPXR) and mouse PXR (mPXR). We tested the hPXR and mPXR agonistic activity of 200 pesticides (29 organochlorines, 11 diphenyl ethers, 56 organophosphorus pesticides, 12 pyrethroids, 22 carbamates, 12 acid amides, 7 triazines, 7 ureas, and 44 others) by reporter gene assays using COS-7 simian kidney cells. Of the 200 pesticides tested, 106 and 93 activated hPXR and mPXR, respectively, and a total of 111 had hPXR and/or mPXR agonistic activity with greater or lesser inter-species differences. Although all of the pyrethroids and most of the organochlorines and acid amides acted as PXR agonists, a wide range of pesticides with diverse structures also showed hPXR and/or mPXR agonistic activity. Among the 200 pesticides, pyributicarb, pretilachlor, piperophos and butamifos for hPXR, and phosalone, prochloraz, pendimethalin, and butamifos for mPXR, acted as particularly potent activators at low concentrations in the order of 10a degree 8-10a degree 7M. In addition, we found that several organophosphorus oxon- and pyributicarb oxon-metabolites decreased PXR activation potency compared to their parent compounds. These results suggest that a large number of structurally diverse pesticides and their metabolites possess PXR-mediated transcriptional activity, and their ability to do so varies in a species-dependent manner in humans and mice.  
Keywords: ENA 03:Energy  
Keywords: Organochlorine compounds  
Keywords: phosalone  
Keywords: immune system  
Keywords: Immune system  
Keywords: diphenyl ether  
Keywords: Urea  
Keywords: Metabolites  
Keywords: Pendimethalin  
Keywords: triazine  
Keywords: G 07720:Immunogenetics  
Keywords: Prochloraz  
Keywords: Amides  
Keywords: Ethers  
Keywords: Pyrethroids  
Keywords: X 24330:Agrochemicals  
Keywords: pendimethalin  
Keywords: Pesticides (organophosphorus)  
Keywords: Pharmacy And Pharmacology  
Keywords: Energy metabolism  
Keywords: Nuclear receptors  
Keywords: Genetics Abstracts; Environment Abstracts; Toxicology Abstracts  
Keywords: Pesticides (carbamates)  
Keywords: Reporter gene  
Keywords: Transcription factors  
Keywords: Pesticides  
Keywords: Kidney  
Keywords: pregnane X receptors  
Keywords: amides  
Keywords: Metabolism English. Date revised - 2011-10-01. Last updated - 2011-12-12. DOI - OB-2dd1852d-c999-4159-9b92csamfg201; 14344236; 0300-483X. SubjectsTermNotLitGenreText - Pesticides (organophosphorus); Organochlorine compounds; phosalone; Energy metabolism; Immune system; Nuclear receptors; diphenyl ether; Urea; Metabolites; Pesticides (carbamates); Pendimethalin; triazine; Prochloraz; Reporter gene; Transcription factors; Kidney; pregnane X receptors; Pyrethroids; amides; Amides; immune system; Pesticides; Ethers; pendimethalin; Metabolism

367. Koli, V. A.; Yeragi, S. G., and Yeragi, S. S. Effects of the Pesticide Malathion on Acid Phosphatase Enzymes in Certain Tissues of the Marine Crab Uca marionis (Des) of Mithbav Creek. 2002: 180-181.   
Rec #: 680  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

368. Kooijman, Ron; Devos, Sabrina; Hooghe-Peters, Elisabeth, and Kooijman, Ron. Inhibition of in Vitro Cytokine Production by Human Peripheral Blood Mononuclear Cells Treated With Xenobiotics: Implications for the Prediction of General Toxicity and Immunotoxicity. 2010 Sep; 24, (6): 1782-1789.   
Rec #: 6870  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The use of human peripheral blood mononuclear cells (PBMC) as an in vitro system to predict in vivo toxicity was investigated. For 58 chemicals, the effect on cytokine secretion (IL-5, IFNI[sup3 and TNFa) by phytohaemagglutinin-activated PBMC was measured, IC50 values were calculated and correlations of these endpoints with human LC50 values were determined. The best result was obtained with IFNI[sup3 as an endpoint for which the calculated R 2 value was 0.58 which is comparable with the R 2 values for the classical neutral red uptake (NRU) assays using murine 3T3 cells and normal human keratinocytes (R 2 =0.56 and 0.59, respectively). When for each chemical the lowest IC50 value of the three endpoints was correlated with LC50 the calculated R 2 increased slightly to 0.63. A specific strength of our test is that it corrects several outliers (diazepam, digoxin, malathion and verapamil hydrochloride) which do not fit in the linear regression analysis for IC50 values obtained with the classical 3T3 NRU assay. Furthermore, 2,4-dichlorophenoxyacetic acid, cyclosporine A and pentachlorophenol had a 10 times lower IC50 value than the estimated human LC50 value and were identified as immunotoxic alerts. In conclusion, new endpoints investigated in this study contribute to the prediction of immunotoxic effects and correct outliers of classical cytotoxicity assays.  
Keywords: Immunology Abstracts; Toxicology Abstracts  
Keywords: Interleukin 5  
Keywords: F 06955:Immunomodulation & Immunopharmacology  
Keywords: Diazepam  
Keywords: Xenobiotics  
Keywords: Tumor necrosis factor-a  
Keywords: Cyclosporins  
Keywords: Malathion  
Keywords: Cytotoxicity  
Keywords: Immunotoxicity  
Keywords: Peripheral blood mononuclear cells  
Keywords: Verapamil  
Keywords: Regression analysis  
Keywords: Cytokines  
Keywords: digoxin  
Keywords: Keratinocytes  
Keywords: X 24330:Agrochemicals  
Keywords: Pentachlorophenol English. Date revised - 2010-10-01. Last updated - 2012-03-29. DOI - 66aaffc2-ba5a-4a2d-a1c1csaobj202; 13668024; 0887-2333. SubjectsTermNotLitGenreText - Interleukin 5; Diazepam; Xenobiotics; Tumor necrosis factor-a; Cyclosporins; Malathion; Peripheral blood mononuclear cells; Immunotoxicity; Cytotoxicity; Verapamil; Regression analysis; Cytokines; digoxin; Keratinocytes; Pentachlorophenol

369. Koureas, Michalis; Tsakalof, Andreas; Tsatsakis, Aristidis, and Hadjichristodoulou, Christos. Systematic review of biomonitoring studies to determine the association between exposure to organophosphorus and pyrethroid insecticides and human health outcomes: Advances on biomonitoring and exposure assessment for pesticides and persistent organic pollutants. 2012 Apr 25-; 210, (2): 155-168.   
Rec #: 700  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: For the appropriate protection of human health it is necessary to accurately estimate the health effects of human exposure to toxic compounds. In the present review, epidemiological studies on the health effects of human exposure to organophosphorus (OP) and pyrethroid (PYR) insecticides have been critically assessed. This review is focused on studies where the exposure assessment was based on quantification of specific biomarkers in urine or plasma. The 49 studies reviewed used different epidemiological approaches and analytical methods as well as different exposure assessment methodologies. With regard to OP pesticides, the studies reviewed suggested negative effects of prenatal exposure to these pesticides on neurodevelopment and male reproduction. Neurologic effects on adults, DNA damage and adverse birth outcomes were also associated with exposure to OP pesticides. With regard to exposure to PYR pesticides, there are currently few studies investigating the adverse health outcomes due to these pesticides. The effects studied in relation to PYR exposure were mainly male reproductive effects (sperm quality, sperm DNA damage and reproductive hormone disorders). StudiesÇÖ findings provided evidence to support the hypothesis that PYR exposure is adversely associated with effects on the male reproductive system. Biomarkers/ Exposure assessment/ Organophosphates/ Pesticides/ Pesticides health effects/ Pyrethroids http://www.sciencedirect.com/science/article/pii/S0378427411015748

370. Koutros, Stella; Beane Freeman, Laura E; Lubin, Jay H; Heltshe, Sonya L; Andreotti, Gabriella; Barry, Kathryn Hughes; Dellavalle, Curt T; Hoppin, Jane a; Sandler, Dale P; Lynch, Charles F; Blair, Aaron; Alavanja, Michael Cr, and Koutros, Stella. Risk of Total and Aggressive Prostate Cancer and Pesticide Use in the Agricultural Health Study. 2013 Jan 1; 177, (1): 59-74.   
Rec #: 2410  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Because pesticides may operate through different mechanisms, the authors studied the risk of prostate cancer associated with specific pesticides in the Agricultural Health Study (1993-2007). With 1,962 incident cases, including 919 aggressive prostate cancers among 54,412 applicators, this is the largest study to date. Rate ratios and 95% confidence intervals were calculated by using Poisson regression to evaluate lifetime use of 48 pesticides and prostate cancer incidence. Three organophosphate insecticides were significantly associated with aggressive prostate cancer: fonofos (rate ratio (RR) for the highest quartile of exposure (Q4) vs. nonexposed = 1.63, 95% confidence interval (CI): 1.22, 2.17; P sub(trend) < 0.001); malathion (RR for Q4 vs. nonexposed = 1.43, 95% CI: 1.08, 1.88; P sub(trend) = 0.04); and terbufos (RR for Q4 vs. nonexposed = 1.29, 95% CI: 1.02, 1.64; P sub(trend) = 0.03). The organochlorine insecticide aldrin was also associated with increased risk of aggressive prostate cancer (RR for Q4 vs. nonexposed = 1.49, 95% CI: 1.03, 2.18; P sub(trend) = 0.02). This analysis has overcome several limitations of previous studies with the inclusion of a large number of cases with relevant exposure and detailed information on use of specific pesticides at 2 points in time. Furthermore, this is the first time specific pesticides are implicated as risk factors for aggressive prostate cancer.  
Keywords: Prostate cancer  
Keywords: Organochlorine compounds  
Keywords: Insecticides  
Keywords: Organophosphates  
Keywords: H 5000:Pesticides  
Keywords: Risk factors  
Keywords: Pesticides  
Keywords: Aldrin  
Keywords: Risk Abstracts; Health & Safety Science Abstracts  
Keywords: R2 23110:Psychological aspects  
Keywords: Malathion English. Date revised - 2013-02-01. Last updated - 2013-02-22. DOI - 9025e70f-5344-442b-a548mfgefd108; 17577555; 0002-9262; 1476-6256. SubjectsTermNotLitGenreText - Organochlorine compounds; Insecticides; Prostate cancer; Organophosphates; Risk factors; Aldrin; Pesticides; Malathion

371. Koutros, Stella; Berndt, Sonja I; Barry, Kathryn Hughes; Andreotti, Gabriella; Hoppin, Jane a; Sandler, Dale P; Yeager, Meredith; Burdett, Laurie a; Yuenger, Jeffrey; Alavanja, Michael Cr, and Freeman, Laura Ebeane. Genetic Susceptibility Loci, Pesticide Exposure and Prostate Cancer Risk. 2013 Apr; 8, (4).  
Rec #: 5410  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Uncovering SNP (single nucleotide polymorphisms)-environment interactions can generate new hypotheses about the function of poorly characterized genetic variants and environmental factors, like pesticides. We evaluated SNP-environment interactions between 30 confirmed prostate cancer susceptibility loci and 45 pesticides and prostate cancer risk in 776 cases and 1,444 controls in the Agricultural Health Study. We used unconditional logistic regression to estimate odds ratios (ORs) and 95% confidence intervals (CIs). Multiplicative SNP-pesticide interactions were calculated using a likelihood ratio test. After correction for multiple tests using the False Discovery Rate method, two interactions remained noteworthy. Among men carrying two T alleles at rs2710647 in EH domain binding protein 1 (EHBP1) SNP, the risk of prostate cancer in those with high malathion use was 3.43 times those with no use (95% CI: 1.44-8.15) (P-interaction = 0.003). Among men carrying two A alleles at rs7679673 in TET2, the risk of prostate cancer associated with high aldrin use was 3.67 times those with no use (95% CI: 1.43, 9.41) (P-interaction = 0.006). In contrast, associations were null for other genotypes. Although additional studies are needed and the exact mechanisms are unknown, this study suggests known genetic susceptibility loci may modify the risk between pesticide use and prostate cancer.  
Keywords: SCIENCES: COMPREHENSIVE WORKS  
Keywords: Health sciences  
Keywords: Men  
Keywords: Skin cancer  
Keywords: Studies  
Keywords: Iowa  
Keywords: Confidence intervals  
Keywords: Family medical history  
Keywords: Mens health  
Keywords: Prostate cancer  
Keywords: Insecticides  
Keywords: Risk factors  
Keywords: North Carolina  
Keywords: Pesticides  
Keywords: Health risk assessment  
Keywords: Hypotheses English. Copyright - Â© 2013 Public Library of Science. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited: Citation: Koutros S, Berndt SI, Hughes Barry K, Andreotti G, Hoppin JA, et al. (2013) Genetic Susceptibility Loci, Pesticide Exposure and Prostate Cancer Risk. PLoS ONE 8(4): e58195. doi:10.1371/journal.pone.0058195. Last updated - 2013-04-27. DOI - 2949886771; 77487952; 174835; PLBN; ICAPLOS\_PLBN\_20130401\_v8i4a0058195. SubjectsTermNotLitGenreText - Iowa; North Carolina. Band PR, Abanto Z, Bert J, Lang B, Fang R, et al. (2011) Prostate cancer risk and exposure to pesticides in British Columbia farmers. Prostate 71: 168-183. doi: 10.1002/pros.21232. Blair A, Dosemeci M, Heineman EF (1993) Cancer and other causes of death among male and female farmers from twenty-three states. 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Am J Epidemiol 157: 800-814. doi: 10.1093/aje/kwg040. Mahajan R, Blair A, Lynch CF, Schroeder P, Hoppin JA, et al. (2006) Fonofos exposure and cancer incidence in the agricultural health study. Environ Health Perspect 114: 1838-1842. doi: 10.1289/ehp.9301. Alavanja MC, Sandler DP, Lynch CF, Knott C, Lubin JH, et al. (2005) Cancer incidence in the agricultural health study. Scand J Work Environ Health 31 Suppl 139-45. Koutros S, Alavanja MC, Lubin JH, Sandler DP, Hoppin JA, et al. (2010) An update of cancer incidence in the Agricultural Health Study. J Occup Environ Med 52: 1098-1105. doi: 10.1097/JOM.0b013e3181f72b7c. Koutros S, Beane Freeman LE, Lubin JH, Heltshe SL, Andreotti G, et al. (2013) Risk of Total and Aggressive Prostate Cancer and Pesticide Use in the Agricultural Health Study. Am J Epidemiol 177(1): 59-74. doi: 10.1093/aje/kws225. Eeles RA, Kote-Jarai Z, Al Olama AA, Giles GG, Guy M, et al. 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Identification of a new prostate cancer susceptibility locus on chromosome 8q24. Nature genetics, 41. 10 (2009): 1055-1057. Nature Publishing Group

372. Kozawa, K.; Aoyama, Y.; Mashimo, S., and Kimura, H. Toxicity and actual regulation of organophosphate pesticides. 2009; 28, 245-254.   
Rec #: 14220  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: Organophosphate pesticides (OPs) are widely used as agricultural or domestic insecticides and are necessary for maintaining a good-quality, stable supply of harvested farm products. OPs can, however, exert significant adverse effects on human health. Thus, it may be necessary to regulate usage of OPs and other chemical pesticides. In this review, to better understand the effects of pesticides including OPs on humans, we focus on their toxicity and actual regulation.  
Number of Volumes: 4  
ISI Document Delivery No.: 536MH <Go to ISI>://CCC:000273048000003

373. Krieger, Robert Irving and Hayes, Wayland J.: 2 v (xxxvii, 2342 p ) : ill , port ; 29 cm.   
Rec #: 10870  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The Handbook of Pesticide Toxicology is a comprehensive, two-volume reference guide to the properties, effects, and regulation of pesticides that provides the latest and most complete information to researchers investigating the environmental, agricultural, veterinary, and human-health impacts of pesticide use. Written by international experts from academia, government, and the private sector, the Handbook of Pesticide Toxicology is an in-depth examination of critical issues related to the need for, use of, and nature of chemicals used in modern pest management. This updated third edition carries on the book's tradition of serving as the definitive reference on pesticide toxicology and recognizies the seminal contribution of Wayland J. Hayes, Jr., co-Editor of the first edition. Feature: Presents a comprehensive look at all aspects of pesticide toxicology in one reference work. Benefit: Saves researchers time in quickly accessing the very latest definitive details on toxicity of specific pesticides as opposed to searching through thousands of journal articles. Feature: Clear exposition of hazard identification and dose response relationships in each chapter featuring pesticide agents and actions Benefit: Connects the experimental laboratory results to real-life applications in human health, animal health and the environment. Feature: All major classes of pesticide considered. Benefit: Provides relevance to a wider variety of researchers who are conducting comparative work in pesticides or their health impacts. Feature: Different routes of exposure critically evaluated. Benefit: Connects the loop between exposure and harmful affects to those who are researching the affects of pesticides on humans or wildlife.  
Book

374. Krishnakumar, N. K. and Srinivasan, K. Efficacy and Economics of Pest Control in Okra with Conventional and Synthetic Pyrethroid Insecticides. SOIL; 1987; 15, (1): 81-83.   
Rec #: 200  
Keywords: MIXTURE  
Call Number: NO MIXTURE (CBL,CYP,DM,DMT,ES,FNV,MLN,PMR,SFR)  
Notes: Chemical of Concern: CBL,CYP,DM,DMT,ES,FNV,MLN,PMR,SFR

375. Krishnamurthy, B. S.; Achuthan, C.; Ramarao, T. S.; Chandrahas, R. K., and Krishnaswami, A. K. Investigation on Plague in Kolar District (Mysore State). 3. Comparative Evaluation of D.D.T., B.H.C. and Diazinon Water Dispersible Powder and Dust Formulations Against Rat-Fleas in Villages Near Kolar Town (Mysore State). 1963; 17, 205-214.   
Rec #: 1550  
Keywords: NO CONC,NO DURATION  
Call Number: NO CONC (DZ,MLN), NO DURATION (DZ,MLN)  
Notes: Chemical of Concern: DDT,DZ,MLN

376. Krishnamurthy, V and Krishnamurthy, V. Combined Effect of Malathion and Nitrate on Survivability of Tadpoles of Indian Cricket Frog Fejervarya Limnocharis. 2012 May 20.  
Rec #: 2650  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Juveniles  
Keywords: Nitrate  
Keywords: Frogs  
Keywords: Amphibiotic species  
Keywords: Gryllidae  
Keywords: Anura  
Keywords: Fejervarya limnocharis  
Keywords: Malathion English. Date revised - 2013-02-26. Last updated - 2013-02-28. DOI - CPI-6154336; 6154336

377. Kudom, Andreas Adutwum; Mensah, Ben a; Agyemang, Thomas Kwaku, and Kudom, Andreas Adutwum. Characterization of Mosquito Larval Habitats and Assessment of Insecticide-Resistance Status of Anopheles Gambiae Senso Lato in Urban Areas in Southwestern Ghana . 2012 Jun; 37, (1): 77-82.   
Rec #: 5750  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The study was carried out to characterize potential larval habitats in the city of Sekondi with the aim of assessing the relative importance of anthropogenic and natural water bodies as larval habitats. Insecticide-resistance status of Anopheles gambiae senso lato in the southwestern part of the coastal savannah zone in Ghana was also assessed against four different classes of insecticides. Larval surveys were carried out in two communities that are separated by a lagoon. Although the lagoon was a potential mosquito larval habitat, we showed that it was not an important mosquito breeding site. The major larval habitats were anthropogenic, resulting from human behavior. Some of the organically polluted breeding sites were inhabited by both An. gambiae s.l. and Culex quinquefasciatus larvae. The data also showed that An. gambiae s.l. has currently developed a strong resistance to DDT and pyrethroid insecticides in southwestern Ghana, where the species was reported to be susceptible about a decade ago. The use of insecticides in households was implicated as a possible cause of the development of resistance among An. gambiae s.l. populations in the area. The management of insecticide resistance among malaria vectors needs urgent attention if insecticide-treated materials can continue to be used for malaria control.  
Keywords: Culex quinquefasciatus  
Keywords: Data processing  
Keywords: Z 05350:Medical, Veterinary, and Agricultural Entomology  
Keywords: Vectors  
Keywords: Entomology Abstracts; Ecology Abstracts  
Keywords: Malaria  
Keywords: Habitat  
Keywords: Lagoons  
Keywords: Anopheles gambiae  
Keywords: Savannahs  
Keywords: Insecticides  
Keywords: Breeding sites  
Keywords: D 04040:Ecosystem and Ecology Studies  
Keywords: DDT  
Keywords: Pyrethroids  
Keywords: Biology English. Date revised - 2012-05-01. Last updated - 2012-05-31. DOI - OB-19d38c55-aeec-4795-ba4dcsamfg201; 16724416; 1081-1710. SubjectsTermNotLitGenreText - Savannahs; Data processing; Insecticides; Breeding sites; DDT; Vectors; Malaria; Pyrethroids; Habitat; Lagoons; Culex quinquefasciatus; Anopheles gambiae

378. Kuhn, J. O. Fyfanon Purified. 1996.  
Rec #: 690  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

379. Kulluru, P P; Das, B S; Panda, R K, and Kulluru, P P. Evaluation of Sorption and Leaching Potential of Malathion and Atrazine in Agricultural Soils of India. 2010; 4, (1): 75-90.   
Rec #: 4440  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Movement of pesticides through soils to groundwater and surface water has long been considered a potentially serious environmental problem in different parts of the world. Remediation of such problems requires monitoring of site specific data. Considering these facts a laboratory based investigation was carried out to determine the sorption and leaching parameters of two contrasting and widely used pesticides (malathion and atrazine) in three different agricultural soils: loamy sand (Typic Xerosament), sandy loam (Acid Lateritic Haplustalf) and clay loam (Hyperthermic Typic Haplusterts). Standard batch sorption technique was used to determine the sorption coefficient (K sub(d)) and organic carbon distribution coefficient (K sub(oc)). Miscible displacement experiments were conducted to determine the transport parameters such as pore water velocity ( upsilon ), dispersion coefficient (D), retardation factor (R) and degradation rate constant ( lambda ). The results of batch sorption experiments revealed that malathion had higher K sub(d) values as compared to atrazine for all soils. The grouping of soils according to sorption capacity followed the order: clay loam > sandy loam > loamy sand, for both malathion and atrazine. The results of miscible displacement experiments revealed that malathion could leach up to 30 cm depth whereas atrazine could leach up to 65 cm depth in the test soils. The values of transport parameters determined by method of moments ranged from 0.79 to 1.63 cm/h for upsilon and 3.15 to 12.26, cm super(2)/h for D in the test soils. The R values of malathion obtained using K sub(d were) 3.1 to 3.4 times higher than atrazine for the test soils. The half life of malathion and atrazine obtained from lambda ranged from 0.3 to 1.7 days and 50 to 64 days, respectively in the above mentioned soils.  
Keywords: Pore water  
Keywords: Bioremediation  
Keywords: Degradation  
Keywords: Surface water  
Keywords: P 5000:LAND POLLUTION  
Keywords: Organic carbon  
Keywords: Loam  
Keywords: Malathion  
Keywords: Clays  
Keywords: Toxicology Abstracts; Pollution Abstracts; Environment Abstracts; Aqualine Abstracts; Environmental Engineering Abstracts  
Keywords: India  
Keywords: Soil  
Keywords: sandy soils  
Keywords: Agricultural Chemicals  
Keywords: Carbon  
Keywords: Sand  
Keywords: Ground water  
Keywords: X 24330:Agrochemicals  
Keywords: Testing Procedures  
Keywords: EE 40:Water Pollution: Monitoring, Control & Remediation  
Keywords: Sorption  
Keywords: Clay  
Keywords: Leaching  
Keywords: Data processing  
Keywords: Velocity  
Keywords: Herbicides  
Keywords: agricultural land  
Keywords: AQ 00003:Monitoring and Analysis of Water and Wastes  
Keywords: ENA 06:Food & Drugs  
Keywords: loam  
Keywords: Surface-groundwater Relations  
Keywords: Atrazine  
Keywords: Pesticides  
Keywords: Groundwater English. Date revised - 2010-02-01. Last updated - 2011-11-08. DOI - OB-MD-0012696733; 11852048; 1735-6865. SubjectsTermNotLitGenreText - India; Atrazine; Malathion; Sorption; Testing Procedures; Surface-groundwater Relations; Sand; Loam; Agricultural Chemicals; Pesticides; Soil; Herbicides; loam; Clay; agricultural land; Leaching; Surface water; Degradation; Bioremediation; Groundwater; Pore water; sandy soils; Organic carbon; Velocity; Clays; Carbon; Data processing; Ground water

380. Kynoch, S. R. Acute Dermal Toxicity to Rats of Malathion (Fyfanon) Technical. 1985.  
Rec #: 700  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

381. ---. Acute Oral Toxicity to Rats of Malathion (Fyfanon) Technical. 1985.  
Rec #: 720  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

382. Kynoch, S. R. and Smith, P. A. Delayed Contact Hypersensitivity in the Guinea-Pig with Malathion (Fyfanon) Technical. 1985.  
Rec #: 710  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

383. Lagisz, M.; Port, G., and Wolff, K. Living in a jar: genetic variation and differentiation among laboratory strains of the red flour beetle. 2011; 135, 682-692.   
Rec #: 14320  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The red flour beetle, Tribolium castaneum, is a common pest, which has become an important model study organism, especially in genetic, ecological and evolutionary research. Although almost all studies on this species have been conducted using established laboratory strains, very little is known about the loss of genetic diversity within the strains and genetic divergence between different laboratory stocks. In this study, five long-term laboratory strains and one wild strain were examined for genetic variation at 12 microsatellite loci, which were designed using publicly available sequences. One of the laboratory strains is resistant to phosphine and one to organophosphorous insecticides. All strains had significant amounts of molecular variation, but genetic diversity in the laboratory strains was lower than in the wild-derived strain used as control. We observed significant molecular divergence among the strains, however, the relationship between them reflected resistance status rather than geographic origins. We found no evidence for recent bottlenecks, but the wild-derived population showed signs of demographic expansion. A novel multivariate method, multiple co-inertia analysis, revealed that the two loci contributing most to the divergence between the resistant strains were located on the eighth chromosome, near genes associated with insecticide resistance.  
Number of Volumes: 9  
ISI Document Delivery No.: 851ST <Go to ISI>://CCC:000297291900005

384. Laila, A. R. Chronic Toxic Effects of Malathion on Fish Carbohydrate Metabolism. 1998; 36, (2): 1211-1221.   
Rec #: 730  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

385. Lajmanovich, R. C.; Peltzer, P. M.; Junges, C. M.; Attademo, A. M.; Sanchez, L. C., and Basso, A. Activity Levels of B-Esterases in the Tadpoles of 11 Species of Frogs in the Middle Parana River Floodplain: Implication for Ecological Risk Assessment of Soybean Crops. 2010; 73, (7): 1517-1524.   
Rec #: 1840  
Keywords: IN VITRO  
Call Number: NO IN VITRO (MLO)  
Notes: Chemical of Concern: MLO

386. Lamb, I. C. An Acute Neurotoxicity Study of Malathion in Rats. 1994.  
Rec #: 740  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

387. ---. A Subchronic (13-Week) Neurotoxicity Study of Malathion in Rats. 1994.  
Rec #: 750  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

388. Lambert, M. R. K. Effects of Pesticides on Amphibians and Reptiles in Sub-Saharan Africa. 1997; 150, 31-73.   
Rec #: 210  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (CPY,CYF,DM,ES,FNT,MLN,PMR,TCF,TMP), NO REVIEW (CPY,CYF,DM,ES,FNT,MLN,PMR,TCF,TMP)  
Notes: Chemical of Concern: BDC,CPY,CYF,DDE,DDT,DLD,DM,ES,FNT,HCCH,HPT,MLN,PMR,PPCP,TCF,TMP,TXP

389. Latif, Yawar; Sherazi, S. T. H., and Bhanger, M. I. Assessment of pesticide residues in commonly used vegetables in Hyderabad, Pakistan. 2011 Nov; 74, (8): 2299-2303.   
Rec #: 1590  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: The aim of present study was to assess pesticide residues in vegetables in the Hyderabad region of Pakistan. The concentrations of six pesticides were determined by gas chromatography coupled with mass selective detector (GCÇôMSD) in locally produced vegetables purchased from wholesale markets. A total of 200 samples of eight vegetables viz. cauliflower, green chilli, eggplant, tomato, peas, bitter gourd, spinach and apple gourd were analyzed for pesticide residues. The results indicated that almost all samples were contained pesticides, only 39% contained pesticide residues at or below maximum residue limits (MRLs), and 61% contained pesticide residues above MRLs. From the six analyzed pesticides, carbofuran and chlorpyrifos were found above to MRLs with concentrations ranging from 0.01Çô0.39 and 0.05Çô0.96 mg/kg, respectively. The results provided important information on the current pesticide contamination status of some commonly used vegetables and pointed an urgent need to control the use of some excessively applied and potentially persistent pesticides, such as carbofuran and chlorpyrifos. Pesticide residues/ Vegetables/ Ultrasonic assisted extraction/ GCÇôMS http://www.sciencedirect.com/science/article/pii/S014765131100217X

390. Latifah, a M; Musa, R David; Latiff, P a, and Latifah, A M. Gas Chromatography Mono Spectrometry Study of Malathion Residues in Centella Asiatica. 2011; 8, (1): 57.   
Rec #: 3740  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Centella asiatica is a herbaceous plant and known as pegaga in Malaysia. It was commonly used as a healing agent and constituent to improve mental ability because contains polyphenols and triterpenes. Malathion is an insecticide that helped to increase value and yields of Centella. asiatica by control the damage caused by crop pests. Study was done in MARDI Serdang to measure malathion residue in Centella. asiatica with different treatment methods using GC-MS. Six plots were randomly selected and samples were taken a day before, a day, three days and five days after the application of malathion. The samples were divided into treated (soaked in tap water and salted water), and untreated groups. The sample was extracted through the liquid-liquid extraction and underwent a clean-up process by a silica gel. The residues were found in; three samples treated with salt water (A1= 19.78 mu g/kg, C1 = 8.53 mu g/kg and E1= 0.99 mu g/kg), one sample treated with tap water (E1=0.44 mu g/kg) and two unwashed samples (E1=0.0053 mg/kg and F1=0.0077 mg/kg). Therefore the safest way to consume is by soaked with tap water compared with soaked in salt water and unwashed. However the malathion residue found were below the Maximum Residue Limits set up by US EPA.  
Keywords: Residues  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Malathion  
Keywords: Crops  
Keywords: Spectrometry  
Keywords: Salts  
Keywords: EPA  
Keywords: pests  
Keywords: Insecticides  
Keywords: Malaysia  
Keywords: Centella asiatica  
Keywords: Pollution Abstracts  
Keywords: Drinking water English. Date revised - 2011-07-01. Last updated - 2012-03-29. DOI - a86abc4c-7698-4552-8a04mfgefd107; 14908124; 1735-1979. SubjectsTermNotLitGenreText - EPA; Salts; pests; Insecticides; Residues; Drinking water; Crops; Malathion; Spectrometry; Centella asiatica; Malaysia

391. Latifi, a M ; Khodi, S; Mirzaei, M; Miresmaeili, M; Babavalian, H, and Latifi, A M. Isolation and Characterization of Five Chlorpyrifos Degrading Bacteria. 2012 Feb 14; 11, (13): 3140-3146.   
Rec #: 2810  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Several strains of bacteria were successfully isolated from effluent storage pools of factories producing pesticides and from soil moisture around them. The isolates were capable of utilizing chlorpyrifos (Cp) as the sole source of carbon, phosphorus and energy. Isolates were identified based on 16SrRNA sequence analysis and were named IRLM.1, IRLM.2, IRLM.3, IRLM.4, and IRLM.5. IRLM.1 was able to grow at concentrations of chlorpyrifos up to 2000 mg/L and was selected as a preferable isolate for further analysis. The amount of the degraded Cp and the amount of metabolite 3,5,6-trichloropyridinol (TCP) produced were assessed in IRLM.1 by using high performance liquid chromatography (HPLC) techniques. Additionally, the location of the chlorpyrifos-degrading enzyme was determined by comparing the activity of intact bacteria to cytoplasm activity. Our study reveals that Cp-degrading enzyme of IRLM.1 is cytoplasmic and 10 mu l cytoplasm isolated from 0.05 g dry-weight bacteria can degrade 50% of 2 mM Cp in 2 min. Furthermore, the HPLC analysis showed accumulation of TCP in the medium, revealing that IRLM.1 was able to degrade Cp without being affected by the antimicrobial activity of TCP. Moreover, results show that the IRLM.1 isolate could grow and utilize diazinon and malathion as the sole source of carbon, phosphorus and energy. Thus IRLM.1 can successfully participate in efficient degradation of organophosphorus compounds (OPs).  
Keywords: A 01380:Plant Protection, Fungicides & Seed Treatments  
Keywords: High-performance liquid chromatography  
Keywords: Antimicrobial activity  
Keywords: Organophosphorus compounds  
Keywords: Phosphorus  
Keywords: Enzymes  
Keywords: Metabolites  
Keywords: Effluents  
Keywords: Malathion  
Keywords: J 02450:Ecology  
Keywords: Chlorpyrifos  
Keywords: Carbon  
Keywords: Cytoplasm  
Keywords: Energy  
Keywords: Pesticides  
Keywords: Microbiology Abstracts A: Industrial & Applied Microbiology; Microbiology Abstracts B: Bacteriology; Biotechnology and Bioengineering Abstracts  
Keywords: W 30915:Pharmaceuticals & Vaccines  
Keywords: Soil moisture  
Keywords: Diazinon English. Date revised - 2012-06-01. Last updated - 2013-03-11. DOI - MD-0018775914; 16778191; 1684-5315. SubjectsTermNotLitGenreText - High-performance liquid chromatography; Antimicrobial activity; Organophosphorus compounds; Phosphorus; Enzymes; Metabolites; Effluents; Malathion; Chlorpyrifos; Carbon; Cytoplasm; Energy; Pesticides; Soil moisture; Diazinon

392. Laws, E. R. Jr.; Sedlak, V. A.; Miles, J. W.; Joseph, C. R.; Lacomba, J. R., and Rivera, A. D. Field Study of the Safety of Abate for Treating Potable Water and Observations on the Effectiveness of a Control Programme Involving both Abate and Malathion. 1968; 38, (3): 439-445.   
Rec #: 1690  
Keywords: HUMAN HEALTH  
Call Number: NO HUMAN HEALTH (MLN,TMP)  
Notes: Chemical of Concern: MLN,TMP

393. Lazarevi-ç-Pa+íti, Tamara; Momi-ç, Tatjana; Radojevi-ç, Milo+í M., and Vasi-ç, Vesna. Influence of organophosphorus pesticides on peroxidase and chlorination activity of human myeloperoxidase. (0).  
Rec #: 460  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract Organophosphate/ Pesticide/ Inhibition/ Myeloperoxidase/ Malathion http://www.sciencedirect.com/science/article/pii/S0048357513000886

394. Lazarevi-ç-Pa+íti, Tamara D.; Bond++i-ç, Aleksandra M.; Pa+íti, Igor A., and Vasi-ç, Vesna M. Indirect electrochemical oxidation of organophosphorous pesticides for efficient detection via acetylcholinesterase test. 2012 Nov; 104, (3): 236-242.   
Rec #: 720  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Organothiophosphorous pesticides diazinon, malathion, chlorpyrifos, azinphos-methyl and phorate, have been indirectly electrochemically oxidized in aqueous media using anodically evolved Cl2, Br2 or I2 as a pre-step for their detection via acetylcholinesterase-based test. The presence of single oxidation product, corresponding oxo-form, was confirmed by UPLC analysis, as well as its stability with respect to hydrolysis. Comparing different halogens, the best results were obtained using Br2 as the oxidant due to high reactivity of HOBr, which is formed upon chemical reaction of anodically formed Br2 with water. Limits of detection of five analyzed pesticides were lowered upon indirect electrochemical oxidation with Br2 for two orders of magnitude or more, comparing to unoxidized parental thio-forms. In fact, the lowest possible detection limits for all five pesticides using proposed analytical procedure were achieved, as being determined by detection limits of corresponding oxo forms. Comparison of here proposed electrochemical oxidation pre-step with earlier reported ones is provided and discussed. Organophosphate/ Pesticide/ Oxidation/ Halogen/ Acetylcholinesterase/ Myeloperoxidase http://www.sciencedirect.com/science/article/pii/S0048357512001381

395. Lazareviae-Pasti, Tamara; Coloviae, Mirjana; Saviae, Jasmina; Momiae, Tatjana; Vasiae, Vesna, and LazareviAe-Pasti, Tamara. Oxidation of Diazinon and Malathion by Myeloperoxidase. 2011 Jun; 100, (2): 140-144.   
Rec #: 3430  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The aim of the work was to investigate the in vitro oxidation of diazinon and malathion, organophosphorous pesticides (OPs) containing phosphorthioate group, catalyzed by enzyme myeloperoxidase (MPO). The oxidation was performed in the presence of hydrogen peroxide. The products were identified as oxon derivatives (phosphates), where the sulfur atom from thioate group was substituted by an oxygen atom. No hydrolysis products were detected after enzyme - induced oxidation. The oxidation efficiency was controlled using acethylcholinesterase (AChE) bioassay for determination of oxon derivatives concentration. The influence of OPs concentration, incubation time of OPs with MPO, as well as MPO concentration on the yield of oxo forms was investigated. Kinetic constants of MPO in oxidation of malathion and diazinon were estimated. The maximum concentration of oxo forms was achieved after 10min incubation of OPs in 50mM phosphate buffer (pH 6.0) with 100nM MPO.  
Keywords: Sulfur  
Keywords: Peroxidase  
Keywords: Enzymes  
Keywords: Hydrolysis  
Keywords: Malathion  
Keywords: Oxygen  
Keywords: Phosphate  
Keywords: Hydrogen peroxide  
Keywords: Kinetics  
Keywords: Oxidation  
Keywords: Pesticides  
Keywords: X 24330:Agrochemicals  
Keywords: pH effects  
Keywords: Toxicology Abstracts  
Keywords: Diazinon English. Date revised - 2012-03-01. Last updated - 2013-04-19. DOI - 8859d02b-8e8b-4180-98c5csaobj201; 14892540; 0048-3575. SubjectsTermNotLitGenreText - Sulfur; Peroxidase; Enzymes; Hydrolysis; Malathion; Oxygen; Phosphate; Hydrogen peroxide; Kinetics; Oxidation; Pesticides; Diazinon; pH effects

396. LazareviĂ„â€ˇ PaĂ…Âˇti, Tamara; MomiĂ„â€ˇ, Tatjana; Onjia, Antonije; VujisiĂ„â€ˇ, Ljubodrag, and VasiĂ„â€ˇ, Vesna. Myeloperoxidase-mediated oxidation of organophosphorus pesticides as a pre-step in their determination by AChE based bioanalytical methods. 2010; 170, 289-297.   
Rec #: 10940  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In order to improve the sensitivity of assays for inhibitors of the enzyme acetylcholine esterase (AChE), an effective method was developed for the conversion of the organophosphate pesticides (OPs) diazinon, malathion, chlorpyrifos, azinphos-methyl and phorate into more toxic inhibitors. This was accomplished by converting them from the thio form into their oxo form using the enzyme myeloperoxidase. The oxo forms, which are the only products of conversion, were determined by AChE bioassays, using either the free enzyme, or a flow injection analysis manifold with immobilized AChE and spectrophotometric detection. All modified OPs exhibited inhibitory power at ppb levels and within 10 min. The method is considered to represent an excellent means for improving the sensitivity of assays for determination of OPs.  
Keywords: Myeloperoxidase  
Number of Volumes: 3-4  
Vienna : Springer Vienna http://dx.doi.org/10.1007/s00604-010-0324-2

397. Le, Yang and Le, Yang. Determination of Six Kinds of Organophosphorus Pesticides and Atrazine in Drinking Water by Gas Chromatography. 2013 Feb; 32, (1): 52-54, 78.   
Rec #: 5470  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Determination of six kinds of organic phosphorus pesticides and atrazine in drinking water by automatic solid phase extraction and capillary column gas chromatography with NPD was introduced. Dichlorvos, atrazine, dimethoate(rogor), methyl parathion, chlorpyrifos, parathion and malathion in the drinking water were adsorbed by solid phase extraction column first, eluent with MTBE/Methanol aqueous (V/V=90/10) was washed out and set the volume, separated the analyte by the capillary column Varian CP Sil 8 Low bleed, and detected by NPD. Based on the method, the linear coefficients (R) of all the calibration curves were more than 99%; The standard additions were between 85%~105%, relative standard deviation were between 4.0%~10.0%; and the minimun detect levels were between 0.05~0.23 mu g/L,which could reach the requirements of GB 5749-2006.  
Keywords: Chlorpyrifos  
Keywords: ENA 09:Land Use & Planning  
Keywords: Gas chromatography  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: MTBE  
Keywords: Pesticides  
Keywords: Atrazine  
Keywords: Herbicides  
Keywords: Water Resources Abstracts; Pollution Abstracts; Environment Abstracts  
Keywords: Drinking water  
Keywords: Malathion  
Keywords: Parathion Chinese. Date revised - 2013-05-01. Last updated - 2013-05-31. DOI - cd1e63a7-d97a-45ec-bacfcsamfg102v; 17961948; 1009-0177. SubjectsTermNotLitGenreText - Chlorpyrifos; Gas chromatography; MTBE; Pesticides; Atrazine; Herbicides; Drinking water; Malathion; Parathion

398. LeBlanc, Lawrence A. and Kuivila, Kathryn M. Occurrence, distribution and transport of pesticides into the Salton Sea Basin, California, 2001-2002. 2008; 604, 151-172.   
Rec #: 10950  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The Salton Sea is a hypersaline lake located in southeastern California. Concerns over the ecological impacts of sediment quality and potential human exposure to dust emissions from exposed lakebed sediments resulting from anticipated shrinking of shoreline led to a study of pesticide distribution and transport within the Salton Sea Basin, California, in 2001-2002. Three sampling stations--upriver, river mouth, and offshore--were established along each of the three major rivers that discharge into the Salton Sea. Large-volume water samples were collected for analysis of pesticides in water and suspended sediments at the nine sampling stations. Samples of the bottom sediment were also collected at each site for pesticide analysis. Sampling occurred in October 2001, March-April 2002, and October 2002, coinciding with the regional fall and spring peaks in pesticide use in the heavily agricultural watershed. Fourteen current-use pesticides were detected in water and the majority of dissolved concentrations ranged from the limits of detection to 151 ng/l. Diazinon, EPTC and malathion were detected at much higher concentrations (940-3,830 ng/l) at the New and Alamo River upriver and near-shore stations. Concentrations of carbaryl, dacthal, diazinon, and EPTC were higher in the two fall sampling periods, whereas concentrations of atrazine, carbofuran, and trifluralin were higher during the spring, which matched seasonal use patterns of these pesticides. Current-use pesticides were also detected on suspended and bed sediments in concentrations ranging from detection limits to 106 ng/g. Chlorpyrifos, dacthal, EPTC, trifluralin, and DDE were the most frequently detected pesticides on sediments from all three rivers. The number of detections and concentrations of suspended sediment-associated pesticides were often similar for the river upriver and near-shore sites, consistent with downstream transport of pesticides via suspended sediment. While detectable suspended sediment pesticide concentrations were more sporadic than detected aqueous concentrations, seasonal trends were similar to those for dissolved concentrations. Generally, the pesticides detected on suspended sediments were the same as those on the bed sediments, and concentrations were similar, especially at the Alamo River upriver site. With a few exceptions, pesticides were not detected in suspended or bed sediments from the off-shore sites. The partitioning of pesticides between water and sediment was not predictable from solely the physical-chemical properties of individual pesticide compounds, but appear to be a complicated function of the quantity of pesticide applied in the watershed, residence time of sediments in the water, and compound solubility and hydrophobicity. Sediment concentrations of most pesticides were found to be 100-1,000 times lower than the low-effects levels determined in human health risk assessment studies. However, maximum concentrations of chlorpyrifos on suspended sediments were approximately half the low-effects level, suggesting the need for further sediment characterization of lake sediments proximate to riverine inputs.  
Keywords: Internet resource  
Number of Volumes: 1  
Dordrecht : Springer Netherlands http://dx.doi.org/10.1007/s10750-008-9316-1

399. Lee, Soyoung; Park, Keunwan; Ahn, Hee-Sung; Kim, Dongsup, and Lee, Soyoung. Importance of Structural Information in Predicting Human Acute Toxicity From in Vitro Cytotoxicity Data. 2010 Jul; 246, (1-2): 38-48.   
Rec #: 6950  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this study, we tried to assess the utility of the structural information of drugs for predicting human acute toxicity from in vitro basal cytotoxicity, and to interpret the informative quality and the pharmacokinetic meaning of each structural descriptor. For this, human acute toxicity data of 67 drugs were taken from literature with their basal cytotoxicity data, and used to develop predictive models. A series of multiple linear regression analyses were performed to construct feasible regression models by combining molecular descriptors and cytotoxicity data. We found that although the molecular descriptors alone had only moderate correlation with human acute toxicity, they were highly useful for explaining the discrepancy between in vitro cytotoxicity and human acute toxicity. Among many possible models, we selected the most explanatory models by changing the number and the type of combined molecular descriptors. The results showed that our selected models had high predictive power (R 2: between 0.7 and 0.87). Our analysis indicated that those successful models increased the prediction accuracies by providing the information on human pharmacokinetic parameters which are the major reason for the difference between human acute toxicity and cytotoxicity. In addition, we performed a clustering analysis on selected molecular descriptors to assess their informative qualities. The results indicated that the number of single bonds, the number of hydrogen bond donors and valence connectivity indices are closely related to linking cytotoxicity to acute toxicity, which provides insightful explanation about human toxicity beyond cytotoxicity.  
Keywords: acute toxicity  
Keywords: Molecular modelling  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Pharmacy And Pharmacology  
Keywords: Data processing  
Keywords: Toxicity  
Keywords: Hydrogen  
Keywords: Acute toxicity  
Keywords: Pharmacokinetics  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Models  
Keywords: Cytotoxicity  
Keywords: X 24310:Pharmaceuticals  
Keywords: prediction models  
Keywords: Hydrogen bonding  
Keywords: Regression analysis  
Keywords: Drugs English. Date revised - 2011-10-01. Last updated - 2011-12-07. DOI - OB-fc44f041-1e0e-45f5-a18ecsaobj202; 13146770; 0041-008X. SubjectsTermNotLitGenreText - Molecular modelling; Cytotoxicity; Data processing; Hydrogen bonding; Regression analysis; Acute toxicity; Drugs; Pharmacokinetics; Models; acute toxicity; prediction models; Hydrogen; Toxicity

400. Lesmes-Fabian, C.; Garcia-Santos, G.; Leuenberger, F.; Nuyttens, D., and Binder, C. R. Dermal exposure assessment of pesticide use: The case of sprayers in potato farms in the Colombian highlands. 2012; 430, 202-208.   
Rec #: 14430  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Quantifying dermal exposure to pesticides in farming systems in developing countries is of special interest for the estimation of potential health risks, especially when there is a lack of occupational hygiene regulations. In this paper we present the results of a dermal exposure assessment for the potato farming system in the highlands of Colombia, where farmers apply pesticides with hand pressure sprayers without any personal protective equipment. The fractioning of the pesticide, in terms of potential and actual dermal exposure, was determined via the whole-body dosimetry methodology. using the tracer uranine as pesticide surrogate, and luminescence spectrometry as analytical method. We assessed the three activities involved in pesticide management: preparation, application, and cleaning; analyzed three types of nozzles: one with a standard discharge and two modified by farmers to increase the discharge; and derived the protection factor given by work clothing. Our results suggest that to reduce the health risk, three aspects have to be considered: (i) avoiding the modification of nozzles, which affects the droplet size spectrum and increases the level of dermal exposure; (ii) using adequate work clothing made of thick fabrics, especially on the upper body parts; and (iii) cleaning properly the tank sprayer before the application activity. (C) 2012 Published by Elsevier B.V.  
ISI Document Delivery No.: 976KO <Go to ISI>://CCC:000306583700025

401. Li, J. L.; Zhou, H. Y.; Cao, J.; Zhu, G. D.; Wang, W. M.; Gu, Y.; Liu, Y.; Cao, Y.; Zhang, C., and Gao, Q. [Sensitivity of Anopheles Sinensis to Insecticides in Jiangsu Province].   
Rec #: 8830  
Keywords: NON-ENGLISH  
Notes: Chemical of Concern: MLN   
Abstract: ABSTRACT: OBJECTIVE: To understand the sensitivity of Anopheles sinensis to deltamethrin, DDT and malathion in Jiangsu province.  
ABSTRACT: METHODS: The adult mosquitoes were captured from the fields of Sihong, Yangzhong and Yixing counties (cities) and cultured, and by using the method recommended by WHO, their first filial generations knocked down at 10, 15, 20, 30, 40, 50, and 60 min after exposure with insecticides aforementioned were counted, and the mortality of mosquitoes tested after 24 h was recorded.  
ABSTRACT: RESULTS: The knock down rates of mosquitoes, which were the first generation (F0) of Anopheles sinensis captured from the field of Sihong, Yangzhong, Yixing counties (cities) to 0.05% deltamethrin were 28.57%, 57.14%, 52.38%, respectively 60 min after the exposure; and the mortality rates 24 h-post-exposure were 35.71%, 57.14%, 61.90%, respectively. The resistance degree to deltamethrin was assessed as &quot;R&quot; level. The knock down rates of mosquitoes 60 min after the exposure to 4% DDT were 9.52%, 2.38%, 4.76%, respectively, and the mortality rates 24 h-post-exposure were 47.62%, 50.00%, 40.48%, respectively. The resistance degree to DDT was assessed as &quot;R&quot; level. The knock down rates of mosquitoes 60 min after the exposure to 5% malathion were 11.90%, 28.57%, 28.13%, respectively, and the mortality rates 24 h after the exposure were 80.95%, 85.71%, 93.75%, respectively. The resistance degree to malathion was assessed as level &quot;M&quot;. The knock down rates of Anopheles sinensis captured in day 1, day 7, day 15 and the F1 from Yixing 60 min after the exposure to 0.05% deltamethrin were 54.76%, 76.19%, 92.86%, and 52.38%, respectively, and the mortality rates post-24 h were 54.76%, 76.19%, 95.23% and 61.90%, respectively. The difference of mortality post-24 h between the mosquitoes of 1 day post-captured and F1 was not statistically significant (P > 0.05). The knock down rates 60 min after the exposure to 0.05% deltamethrin to the female and male F1 of Anopheles sinensis from Sihong were 28.57% and 40.48%, and the mortality rates post-24 h were 35.71%, 42.86% respectively, and the difference was not statistically significant (P > 0.05).  
ABSTRACT: CONCLUSIONS: Anopheles sinensis in the field of Jiangsu Province has developed severe resistance to deltamethrin and DDT, initial resistance to malathion. In order to prevent the development of resistance to the insecticides, the integrated management measures should be adopted in the future.  
MESH HEADINGS: Animals  
MESH HEADINGS: Anopheles/\*drug effects/physiology  
MESH HEADINGS: DDT/toxicity  
MESH HEADINGS: Drug Resistance  
MESH HEADINGS: Female  
MESH HEADINGS: Insect Vectors  
MESH HEADINGS: Insecticides/\*toxicity  
MESH HEADINGS: Malathion/toxicity  
MESH HEADINGS: Male  
MESH HEADINGS: Mosquito Control/\*instrumentation  
MESH HEADINGS: Nitriles/toxicity  
MESH HEADINGS: Pyrethrins/toxicity chi

402. Li, Ling; Zhou, Shanshan; Jin, Lixia; Zhang, Cheng, and Liu, Weiping. Enantiomeric separation of organophosphorus pesticides by high-performance liquid chromatography, gas chromatography and capillary electrophoresis and their applications to environmental fate and toxicity assays: BIOANALYSIS OF ORGANOPHOSPHORUS TOXICANTS AND CORRESPONDING ANTIDOTES. 2010 May 15-; 878, (17Çô18): 1264-1276.   
Rec #: 1670  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: In recent years, the continuous evolution of the field of stereochemistry has produced a heightened awareness of the applications of pure enantiomers of agrochemicals. This review describes reports of the enantiomeric separation of commercial organophosphorus pesticides (OPs) and the applications of these methods to research on the enantioselectivity of the toxicity and environmental fate of these compounds. Chiral OPs can be analysed by high-performance liquid chromatography (HPLC), gas chromatography (GC), and capillary electrophoresis (CE). These different separation techniques for OP enantiomers are briefly discussed, and their applications are presented. Enantiomeric separation/ Organophosphorus pesticides/ High-performance liquid chromatography/ Gas chromatography/ Capillary electrophoresis/ Toxicity/ Environmental fate http://www.sciencedirect.com/science/article/pii/S1570023209007466

403. Li, S.; Ran, X. Q.; Xu, L., and Wang, J. F. microRNA and mRNA Expression Profiling Analysis of Dichlorvos Cytotoxicity in Porcine Kidney Epithelial PK15 Cells. 2011; 30, 1073-1083.   
Rec #: 14450  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Dichlorvos (DIC) is an organophosphate compound with cholinergic and noncholinergic neurotoxicity as well as non-neuronal cytotoxicity. Little is known about the mechanisms of DIC cytotoxicity in non-neuronal cells. In this study, we established a porcine kidney epithelial cell line (PK15) as a model to explore the mechanisms underlying DIC cytotoxicity based on miRNA and mRNA expression profiling analysis. We found that DIC inhibited the proliferation of PK15 cells in a dose-and time-dependent manner, which may result from apoptosis induced by DIC. Microarray analyses revealed that 16 and 14 miRNAs were significantly upregulated and downregulated in PK15 cells treated by 0.875mM DIC for 8 h. Among the 30 differentially expressed miRNAs, 7 new miRNAs in pigs were predicted by homology-based searches. In addition, DIC upregulated 339 and downregulated 282 mRNA transcripts. A target prediction algorithm was used to analyze the pattern of differentially expressed miRNAs and mRNAs. Functional analysis indicated that these mRNAs belonged to different functional categories, forming a network participating in the DIC-induced apoptosis in PK15 cells. Therefore, our findings provide new insights into the role of miRNAs in the gene expression and function in DIC-related noncholinergic cytotoxicity.  
Number of Volumes: 12  
ISI Document Delivery No.: 863GX <Go to ISI>://CCC:000298151900017

404. Li, Yanhong ; Chen, Li; Chen, Zhenshan; Coehlo, Joe; Cui, Li; Liu, Yu; Lopez, Terry; Sankaran, Gayatri; Vega, Helen; Krieger, Robert, and Krieger, Robert. Glove Accumulation of Pesticide Residues for Strawberry Harvester Exposure Assessment. 2011 Jun; 86, (6): 615-620.   
Rec #: 3380  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: We investigated the accumulation of pesticide residues on rubber latex gloves that are used by strawberry harvesters to protect their skin, reduce pesticide exposure and promote food safety. Gloves accumulated residues of 16 active ingredients including azoxystrobin, bifenthrin, boscalid, captan, cyprodinil, fenhexamid, fenpropathrin, fludioxonil, hexythiazox, malathion, methomyl, naled, propiconazole, pyraclostrobin, quinoline, and quinoxyfen at different times. Glove residue accumulation (t sub([frac12]) 2.8-3.7 d) was very similar to the dissipation of DFRs (t sub([frac12]) 2.1-3.0 d) during the first 3weeks after malathion applications. Dermal malathion dose was 0.2mg/kg at the preharvest interval and declined to trace levels during the following 3months. Glove accumulation of malathion indicated trace surface residue availability and was used to assess the relationship between dislodgable foliar residues and potential hand exposure.  
Keywords: Pesticide residues  
Keywords: X 24370:Natural Toxins  
Keywords: Food  
Keywords: Environment Abstracts; Pollution Abstracts; Toxicology Abstracts  
Keywords: Fragaria  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Malathion  
Keywords: Fludioxonil  
Keywords: azoxystrobin  
Keywords: Gloves  
Keywords: Captan  
Keywords: Skin  
Keywords: hexythiazox  
Keywords: Hand  
Keywords: Rubber  
Keywords: gloves  
Keywords: Latex  
Keywords: Food contamination  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: fenhexamid  
Keywords: harvesting  
Keywords: Pesticides  
Keywords: latex  
Keywords: Quinolines  
Keywords: propiconazole English. Date revised - 2011-07-01. Last updated - 2012-03-29. DOI - a412e36f-3029-46e8-b70bmfgefd107; 14884208; 0007-4861; 1432-0800. SubjectsTermNotLitGenreText - Skin; Pesticide residues; hexythiazox; Food; Hand; Rubber; Latex; Malathion; Fludioxonil; azoxystrobin; fenhexamid; Pesticides; Gloves; propiconazole; Quinolines; Captan; harvesting; latex; gloves; Food contamination; Fragaria

405. Li, Zhaoyang; Wu, Tong; Li, Qiaoling; Zhang, Bingzhu; Wang, Weixiao; Li, Jingyin, and Li, Zhaoyang. Characterization of Racemization of Chiral Pesticides in Organic Solvents and Water. 2010 Sep 3; 1217, (36): 5718-5723.   
Rec #: 4020  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Eight chiral pesticides, which were selected to cover different pesticide species and origins of chirality, were investigated to explore their chiral stability in organic solvents and water. Profenophos, fenamiphos, quizalofop-ethyl, dichlorprop-methyl (DCPP-methyl) and acetochlor were showed stable under all test conditions. However, significant racemization was observed for malathion, phenthoate and fenpropathrin in methanol, ethanol and water, but not in n-hexane, isopropanol, acetone or methylene chloride. The kinetic parameters (rate constant k and half-life T sub(1/2) of the abiotic racemization were calculated through a mathematical model of the first-order reaction. Furthermore, the extent of racemization varied among the solvents and was also affected by temperature dependence. The racemization of malathion, phenthoate and fenpropathrin in water was documented to be pH-dependent and took place more rapidly at pH 7.0 than at pH 5.8. The observed racemization was deduced to occur via a proton exchange process at the chiral center, and the relationship between the abiotic racemization and pesticide structure was further explored. Findings from this study are useful for better understanding enantioselectivity of chiral pesticides in environment and also for proper analysis, formulating or handling of enantiopure products.)  
Keywords: Temperature effects  
Keywords: Mathematical models  
Keywords: Protons  
Keywords: Methanol  
Keywords: Solvents  
Keywords: Racemization  
Keywords: Malathion  
Keywords: fenamiphos  
Keywords: phenthoate  
Keywords: Enantiomers  
Keywords: Kinetics  
Keywords: Acetochlor  
Keywords: Pesticides  
Keywords: Acetone  
Keywords: Chirality  
Keywords: X 24330:Agrochemicals  
Keywords: pH effects  
Keywords: Toxicology Abstracts  
Keywords: Methylene chloride  
Keywords: n-Hexane  
Keywords: Ethanol English. Date revised - 2012-03-01. Last updated - 2012-03-29. DOI - 9ceb4464-0185-4152-8556csaobj201; 15120235; 0021-9673. SubjectsTermNotLitGenreText - Temperature effects; Mathematical models; Protons; Methanol; Racemization; Solvents; Malathion; fenamiphos; phenthoate; Enantiomers; Kinetics; Acetochlor; Pesticides; Acetone; Chirality; pH effects; Methylene chloride; n-Hexane; Ethanol

406. Liggett, M. P. and Parcell, B. I. Irritant Effects on Rabbit Skin of Malathion (Fyfanon) Technical. 1985.  
Rec #: 770  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

407. ---. Irritant Effects on the Rabbit Eye of Malathion (Fyfanon) Technical. 1985.  
Rec #: 760  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

408. Lilly, J. H.; Mohiyuddin, S.; Prabhuswamy, H. P.; Samuel, J. C., and Shetty, S. V. R. Effects of Insecticide-Treated Rice Plants and Paddy Water on Vertebrate Animals. 1969; 3, (4): 371-379.   
Rec #: 1100  
Keywords: MIXTURE  
Call Number: NO MIXTURE (DZ,FNT,MLN,PRT)  
Notes: Chemical of Concern: DZ,FNT,MLN,PRT

409. Lin, Li; Xie, Minnan; Liang, Yongmei; He, Yingqian; Sing Chan, Gilbert Yuk, and Luan, Tiangang. Degradation of cypermethrin, malathion and dichlorovos in water and on tea leaves with O3/UV/TiO2 treatment. 2012 Dec; 28, (2): 374-379.   
Rec #: 450  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: The main aims of the present study were to study the efficacy and mechanisms of removing three pesticides (cypermethrin, malathion, dichlorovos) from fresh tea leaves and water by O3/UV/TiO2 treatment, and to explore the optimal conditions for the removal. The results indicated that the removal rates of pesticides on tea leaves were not affected by water pH, whereas the removal rates of pesticides from water were affected. Tea/ Pesticide residues/ Elimination/ Ozonation/ Photocatalysis http://www.sciencedirect.com/science/article/pii/S0956713512002320

410. Lindhout, W. Amyoplasia Congenita-Like Conditions and Maternal Malathion Exposure. 1987: 7-9.   
Rec #: 1750  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN

411. Lisha, K. P.; Anshup, and Pradeep, T. Enhanced visual detection of pesticides using gold nanoparticles. 2009; 44, 697-705.   
Rec #: 14510  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The presence of parts per billion (ppb) levels of chlorpyrifos (O, O-Diethyl-O-(3,5,6-trichloro-2-pyridyl) phosphorothioate) and malathion (S-1,2-bis(ethoxycarbonyl) ethyl O, O-dimethyl phosphorodithioate), two common pesticides found in the surface waters of developing countries, have been visually detected using gold nanoparticles. Visual detection of the presence of pesticide is possible when the color change occurring by the adsorption of pesticides on gold nanoparticles is enhanced by sodium sulfate. The method presented here is simple and there is no need of sample preparation or preconcentration. The response occurs within seconds and the color change is very clear. The detection is possible if chlorpyrifos and malathion are present up to a concentration of 20 and 100 ppb, respectively. The method shows great potential for on-site pesticide monitoring. The method is also applicable as a qualitative technique for the performance evaluation of various household water filters, which claim pesticide removal.  
Number of Volumes: 7  
ISI Document Delivery No.: 535VY <Go to ISI>://CCC:000273001200009

412. Liu, Changgeng; Yang, Bo; Gan, Jie; Zhang, Yang; Liang, Miao; Shu, Xi, and Shu, Jinian. Heterogeneous reactions of suspended parathion, malathion, and fenthion particles with NO3 radicals. 2012 Apr; 87, (5): 470-476.   
Rec #: 390  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Organophosphorus pesticides (OPPs) emit into the atmosphere in both gas and particulate phases via spray drift from treatments and post-application emission, but most of their degradations in the atmosphere are not well known. In this study, the heterogeneous reactions of nitrate (NO3) radicals with three typical OPPs (parathion, malathion, and fenthion) absorbed on azelaic acid particles are investigated using an online vacuum ultraviolet photoionization aerosol time-of-flight mass spectrometer (VUV-ATOFMS). The reaction products observed with the VUV-ATOFMS are identified on the basis of GC/MS analysis of the products in the reaction between NO3 radicals and the coating of the pesticide. Paraoxon is identified as the only product of parathion; malaoxon and bis(1,2-bis-ethoxycarbonylethyl)disulfide as the products of malathion; fenoxon, fenoxon sulfoxide, fenthion sulfoxide, fenoxon sulfone, and fenthion sulfone as the products of fenthion. The degradation rates of parathion, malathion, and fenthion under the experimental conditions are 5.5 +ů 10ęĆ3, 5.6 +ů 10ęĆ2, and 3.3 +ů 10ęĆ2 sęĆ1, respectively. The pathways of the heterogeneous reactions between the three OPPs and NO3 radicals are proposed. The experimental results reveal the possible transformations of these OPPs through the oxidation of NO3 radicals in the atmosphere. Organophosphorus pesticides/ Heterogeneous reaction/ NO3 radicals/ GC/MS/ Aerosol mass spectrometry http://www.sciencedirect.com/science/article/pii/S0045653511014007

413. Liu, D. B.; Chen, W. W.; Wei, J. H.; Li, X. B.; Wang, Z., and Jiang, X. Y. A Highly Sensitive, Dual-Readout Assay Based on Gold Nanoparticles for Organophosphorus and Carbamate Pesticides. 2012; 84, 4185-4191.   
Rec #: 14530  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This report presents a highly sensitive, rhodamine B-covered gold nanoparticle (RB-AuNP) -based assay with dual readouts (colorimetric and fluorometric) for detecting organophosphorus and carbamate pesticides in complex solutions. The detection mechanism is based on the fact that these pesticides can inhibit the activity of acetylcholinesterase (AChE), thus preventing the generation of thiocholine (which turns the RB-AuNP solutions blue and unquenches the fluorescence of RB simultaneously). The color of the RB-AuNP solution remains red and the fluorescence of RB remains quenched. By use of this dual-readout assay, the lowest detectable concentrations for several kinds of pesticides including carbaryl, diazinon, malathion, and phorate were measured to be 0.1, 0.1, 0.3, and 1 mu g/L, respectively, all of which are much lower than the maximum residue limits (MRL) as reported in the European Union pesticides database as well as those from the U.S. Department Agriculture (USDA). This assay allows detection of pesticides in real samples such as agricultural products and river water. The results in detecting pesticide residues collected from food samples via this method agree well with those from high-performance liquid chromatography (HPLC). This simple assay is therefore suitable for sensing pesticides in complex samples, especially, in combination with other portable platforms.  
Number of Volumes: 9  
ISI Document Delivery No.: 933GS <Go to ISI>://CCC:000303349200046

414. Liu, Huigang; Liu, Jing; Xu, Lihong; Zhou, Shanshan; Li, Ling, and Liu, Weiping. Enantioselective Cytotoxicity of Isocarbophos Is Mediated by Oxidative Stress-Induced Jnk Activation in Human Hepatocytes. 2010 Oct 9; 276, (2): 115-121.   
Rec #: 6800  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Recent studies have shown the enantioselectivity of chiral pesticides in environmental fate, aquatic toxicity, endocrine disruption and cytotoxicity. Thus it is of significance to investigate the molecular mechanisms of chiral pesticides enantioselectivity in cytotoxicity. In the present study, we used Hep G2 cells as in vitro model to assay cytotoxicity of enantiomers of isocarbophos (ICP), a widely used chiral organophosphorus pesticide. The results of cell viability assay and cytoflow assay indicated an obvious enantioselective hepatocyte toxicity of ICP: (-)-ICP was about two times more toxic than (+)-ICP in Hep G2 cells. We found that (-)-ICP, but not (+)-ICP, up-regulated Bax protein expression and down-regulated Bcl-2 expression levels, which resulted in an increase in Bax/Bcl-2 ratio with the apoptosis co-ordination. Although (-)-ICP enantioselectively activated both ERK and JNK, only the specific inhibitor for JNK could completely reverse (-)-ICP-induced apoptosis of Hep G2 cells. It suggests that (-)-ICP-induced hepatocyte toxicity was more dominantly through the sustained activation of JNK pathway, but only partially via ERK cascade. Furthermore, (-)-ICP induced ROS production, while (+)-ICP had no effect on ROS generation. The antioxidant MnTBAP attenuated (-)-ICP-induced activation of JNK and ERK, indicating that the outcome from challenge with (-)-ICP enantiomer depends on the oxidative stress-induced activation of a series of signaling cascades that promote hepatocyte apoptosis. In conclusion, (-)-ICP enantioselectively causes the change of Bax/Bcl-2 ratio, triggers the generation of intracellular ROS and sequentially induces sustainable activation of JNK, which in turn, results in a decrease in cell viability and an increase in cell apoptosis. Our observations provide further insight into enantiomers toxicity pathway which is able to differentiate between enantiomer activities at molecular level. Crown Copyright 2010. Published by Elsevier Ireland Ltd. All rights reserved.  
Keywords: Reactive Oxygen Species -- metabolism  
Keywords: Stereoisomerism  
Keywords: Hepatocytes -- drug effects  
Keywords: Humans  
Keywords: EC 2.7.11.24  
Keywords: Malathion -- analogs & derivatives  
Keywords: Malathion  
Keywords: bcl-2-Associated X Protein -- drug effects  
Keywords: Proto-Oncogene Proteins c-bcl-2  
Keywords: Insecticides  
Keywords: Malathion -- chemistry  
Keywords: Cell Survival -- drug effects  
Keywords: Proto-Oncogene Proteins c-bcl-2 -- drug effects  
Keywords: Apoptosis -- drug effects  
Keywords: Insecticides -- chemistry  
Keywords: Insecticides -- toxicity  
Keywords: bcl-2-Associated X Protein  
Keywords: Index Medicus  
Keywords: Reactive Oxygen Species  
Keywords: bcl-2-Associated X Protein -- metabolism  
Keywords: 0  
Keywords: Hep G2 Cells  
Keywords: JNK Mitogen-Activated Protein Kinases  
Keywords: Proto-Oncogene Proteins c-bcl-2 -- metabolism  
Keywords: Oxidative Stress -- drug effects  
Keywords: isocarbophos  
Keywords: 121-75-5  
Keywords: Malathion -- toxicity  
Keywords: Hepatocytes -- metabolism  
Keywords: JNK Mitogen-Activated Protein Kinases -- metabolism eng. Date completed - 2010-10-07. Date created - 2010-09-13. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-20688129; 20688129; 1879-3185

415. Liu, X.; Shi, Y.; Wang, H., and Zhang, R. Determination of Malathion Levels and Its Effect on the Development of Chrysomya megacephala (Fabricius) in South China. State Key Laboratory for Biocontrol Institute of Entomology, Sun Yat-Sen University, Guangzhou 510275, People's Republic of China, lsszrj@mail.sysu.edu.cn//: 2009; 192, (1-3): 5 p.   
Rec #: 1890  
Keywords: NO CONC  
Call Number: NO CONC (MLN)  
Notes: Chemical of Concern: MLN

416. Llorent-Mart+ˇnez, E. J.; Ortega-Barrales, P.; Fern+índez-de C+¦rdova, M. L., and Ruiz-Medina, A. Trends in flow-based analytical methods applied to pesticide detection: A review. 2011 Jan 17-; 684, (1Çô2 ): 30-39.   
Rec #: 1680  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Recent applications of flow-based analytical methods for pesticide determinations are reviewed. This review is focused on the description of electrochemical and optical flow sensors, describing the most relevant applications in this field. The different approaches employed up to date in electrochemical biosensors, together with the possible modifications in the flow methodology and the development of multiparameter flow-through optosensors have also been extensively described. Advantages, handicaps and current trends of each detection technique are critically discussed. The article ends up with a comparison between flow-based analytical methods and chromatography when applied to pesticide determination. Optosensor/ Electrochemical sensor/ Flow analysis/ Pesticides/ Multicommutation http://www.sciencedirect.com/science/article/pii/S0003267010013462

417. Lockridge, O. and Quinn, D. M. 4.14 - Esterases. Editor-in-Chief:-á-áCharlene A. McQueen. Comprehensive Toxicology (Second Edition). Oxford: Elsevier; 2010: 243-273.   
Rec #: 1660  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Human plasma contains two esterases: butyrylcholinesterase and paraoxonase. In contrast to rodents, human plasma contains no carboxylesterase. Human red blood cells contain glycolipid-anchored acetylcholinesterase outside and esterase D inside the cells. The esterase activity of albumin is a half-reaction in which lysines are acylated by esters without turnover. Paraoxonase 1 (PON1) is part of the high-density lipoprotein complex. Liver, lung, intestine, and other tissues contain a total of 31 esterases including four carboxylesterases, two paraoxonases, fourteen thioesterases, six lipases, two cholinesterases, one methylesterase, one platelet-activating factor acetylhydrolase, and one sialate O-acetylesterase. Esterases detoxicate cocaine, organophosphorus pesticides, pyrethroid insecticides, nerve agents, succinylcholine, mivacurium, ritalin, aspirin, esmolol, and demerol. The prodrugs irinotecan, bambuterol, Tamiflu, trandolapril, imidapril, temocapril, and ciclesonide are converted into active drugs by esterases. Genetic variants of human butyrylcholinesterase, carboxylesterase, paraoxonase, and esterase D affect the metabolism of ester drugs. A mutation in human acetylcholinesterase that changes His322 to Asn has no effect on catalytic activity but does provide an epitope for antibody reactivity, making red blood cell acetylcholinesterase the YT2 blood group. Butyrylcholinesterase, acetylcholinesterase, carboxylesterase, and esterase D are characterized by a catalytic triad Ser-His-Glu (or Asp). Organophosphorus esters make a stable covalent bond with the active site serine, resulting in inhibition. The acute toxicity of organophosphorus pesticides and nerve agents is due to inhibition of acetylcholinesterase. The serine esterases have similar three-dimensional (3-D) alpha/beta hydrolase fold protein structures. Paraoxonase has a six-bladed beta propeller structure with two calcium ions in the active site cavity. ISSN/ISBN: 978-0-08-046884-6 acetylcholinesterase/ butyrylthiocholine/ carboxylesterase/ esterase D/ nerve agents/ organophosphorus pesticides/ paraoxonase http://www.sciencedirect.com/science/article/pii/B9780080468846004140

418. Longley, M. A Review of Pesticide Effects upon Immature Aphid Parasitoids Within Mummified Hosts. 1999; 45, (2): 139-145.   
Rec #: 220  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ACP,AZ,BFT,CBL,CPY,CYF,CYP,DCTP,DM,DMT,DZ,EFV,ES,FNT,FNV,FPP,FVL,LCYT,MDT,MLN,MOM,MTM,MVP,TCF,TLM), NO REVIEW (ACP,AZ,BFT,CBL,CPY,CYF,CYP,DCTP,DM,DMT,DZ,EFV,ES,FNT,FNV,FPP,FVL,LCYT,MDT,MLN,MOM,MTM,MVP,TCF,TLM)  
Notes: Chemical of Concern: ACP,AZ,BFT,CBL,CPY,CYF,CYP,DCTP,DEM,DM,DMT,DZ,EFV,EPRN,ES,ETN,FNT,FNV,FPP,FVL,HCCH,LCYT,MDT,MLN,MOM,MTM,MVP,PHSL,PIM,PPCP,PPHD,PRN,TCF,TLM

419. Lopatina, I. U. V. and Eremina, O. I. U. [Insecticide Resistance in Lice Collected From Homeless People in Moscow].   
Rec #: 8790  
Keywords: NON-ENGLISH  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: Permethrin and malathion resistance in body and head lice collected from homeless people in Moscow was investigated in March 2009 to March 2010. Most micropopulations were found to have permethrin-resistant individuals. Their proportion varied from 8.7 to 100%. Cross resistance of body lice to 5 insecticides (the pyrethroids permethrin, d-phenothrin, cypermethrin, deltamethrin, and the organic chlorine compound DDT) was revealed in one case. The lice remained susceptible to organic phosphorus insecticides (fenthion, malathion). The data on permethrin resistance in the lice, obtained by the standard method (immersion of the insects into an insecticide solution), correlated with those yielded by the modified WHO method.  
MESH HEADINGS: Animals  
MESH HEADINGS: Carbaryl  
MESH HEADINGS: DDT  
MESH HEADINGS: \*Fenthion  
MESH HEADINGS: Homeless Persons  
MESH HEADINGS: Humans  
MESH HEADINGS: Insecticide Resistance  
MESH HEADINGS: \*Insecticides  
MESH HEADINGS: Lice Infestations/epidemiology/\*parasitology  
MESH HEADINGS: \*Malathion  
MESH HEADINGS: /epidemiology  
MESH HEADINGS: Nitriles  
MESH HEADINGS: \*Pediculus/physiology  
MESH HEADINGS: Permethrin  
MESH HEADINGS: Pyrethrins  
MESH HEADINGS: Scalp Dermatoses/epidemiology/\*parasitology rus

420. Lopez-Feria, S; Cardenas, S; Valcarcel, M, and Lopez-Feria, S. One Step Carbon Nanotubes-Based Solid-Phase Extraction for the Gas Chromatographic-Mass Spectrometric Multiclass Pesticide Control in Virgin Olive Oils. 2009 Oct 23; 1216, (43): 7346-7350.   
Rec #: 7350  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: This article presents a novel application of carbon nanotubes for the determination of pesticides (chlortoluron, diuron, atrazine, simazine, terbuthylazin-desethyl, dimetoathe, malathion and parathion) in virgin olive oil samples. For this purpose, two carbon nanotubes, multi-walled and carboxylated single- walled, were evaluated, the later being the most appropriate for the aim of the work. The sorbent (30 mg) was packed in 3-mL commercial cartridge and the virgin olive oil samples diluted (20%, v/v) in hexane were passed through it. After a washing step with 3 mL of hexane to remove the sample matrix, the pesticides were eluted with 500 kL of ethyl acetate. In order to achieve lower detection limits, the eluent was evaporated under a nitrogen stream and the residue reconstituted in 50 kL of the same solvent. Aliquots of 2 kL of the extract were directly injected into the GC-MS system for analysis. The low limits of detection achieved, between 1.5 and 3.0 kg L super(-1), permit the application of the method to control the presence of these pollutants in very restrictive samples such as the ecological virgin olive oil. In addition to the sensitivity enhancement, the solid-phase extraction procedure is rather simple as it involves a single preconcentration-elution step, which allows sample processing in less than 8 min. Moreover, the cartridge can be reused at least 100 times without losing performance. The method was applied to the determination of the pesticides in two monovarietal and one ecologic commercial extra virgin olive oil samples. Two pesticides were detected in each of the monovarietal virgin olive oils while the ecological sample resulted to be a pesticide-free one.  
Keywords: Olea  
Keywords: Diuron  
Keywords: Solvents  
Keywords: X 24320:Food Additives & Contaminants  
Keywords: Olive oil  
Keywords: Streams  
Keywords: Malathion  
Keywords: simazine  
Keywords: Carbon  
Keywords: Pollutants  
Keywords: Atrazine  
Keywords: Pesticides  
Keywords: Ethyl acetate  
Keywords: nanotubes  
Keywords: Toxicology Abstracts  
Keywords: n-Hexane  
Keywords: Parathion  
Keywords: Nitrogen English. Date revised - 2009-11-01. Last updated - 2012-03-29. DOI - MD-0010806623; 11089894; 0021-9673. SubjectsTermNotLitGenreText - Diuron; Solvents; Olive oil; Streams; Malathion; simazine; Carbon; Pollutants; Ethyl acetate; Pesticides; Atrazine; nanotubes; n-Hexane; Parathion; Nitrogen; Olea

421. Lopez, Terry Enriquez and Krieger, Robert Eastmond David. Rubber Latex Gloves as a Direct Dosimeter for Measuring Dermal Harvester Pesticide Exposure Particularly With Malathion. 2011.  
Rec #: 8040  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Hands are an important route of dermal exposure to agricultural pesticides during strawberry harvesting. Direct dosimeters that trap pesticide residues as they contact workers during harvesting may be valuable sources for estimates of exposure. Latex gloves as hand dosimeters have been evaluated in two settings: 1) commercial strawberry farms, and, 2) controlled studies using a surrogate contact transfer device and malathion-treated turf. With the assistance of field operators from a commercial strawberry farm, harvester glove samples were collected and obtained via overnight shipping for extraction and analysis of pesticide residues. Harvester gloves accumulated multiple pesticide residues during normal work periods (2 to 2.5 h). Thirteen different pesticide active ingredients were found on harvester gloves at different times. Pesticide residues can accumulate on rubber latex gloves up to âĽ20 mg/pair by intermittent contact during normal work. To evaluate the accumulation of surface pesticide residues on light rubber latex gloves, a surrogate model system, the Brinkman Contact Transfer Unit (BCTU), was developed. The BCTU consisted of latex gloves fitted on mannequin hands mounted in a wheeled chassis that could be pushed across a grid of treated turf. Using the BCTU on malathion-treated turf (2 lbs/A), residues accumulated on gloves (0.14-398 ÎĽg/glove) over a 13 d study period. Turf residues dissipated biphasically over 13 d and the malathion first-order half-life was 1.4 d. The percent transferred and recovered residue from treated turf to a gloved mannequin hand (assuming 420 cm 2 surface area) ranged from <1% to 10% based on measurements of deposition applied to turf. Concurrent applications of malathion and fenpropathrin (data not shown) to turf showed that gloves can accumulate multiple pesticide residues. Transferable turf residues (TTRs) were also measured using the CDFA (California) roller and cotton cloth dosimeters. Residues accumulated on cotton cloths ranged from 0.002-0.117 ÎĽg /cm2 for days 1 through 13. When PGRs (ÎĽg/glove) were plotted as a function of TTRs (ÎĽg/cm 2 ), a strong linear regression correlation was observed (R2 = 0.5-1.0) and an empirical transfer factor of 1548 cm2 /glove was derived from the slope.  
Start Page: 200  
ISSN/ISBN: 9781124940342  
Keywords: Strawberries  
Keywords: Agriculture  
Keywords: Direct dosimeter  
Keywords: Transferable turf residues  
Keywords: 0383:Toxicology  
Keywords: Latex gloves  
Keywords: 0354:Occupational health  
Keywords: Malathion  
Keywords: 0383:Surgery  
Keywords: Surgery  
Keywords: 0473:Agriculture  
Keywords: Harvester exposure  
Keywords: Health and environmental sciences  
Keywords: Biological sciences  
Keywords: Toxicology  
Keywords: Occupational health English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2011. Last updated - 2012-07-02. DOI - 2495262161; 65195501; 66569; 9781124940342; 1500643. First page - n/a

422. Lozowicka, B.; Micinski, J.; Zwierzchowski, G.; Kowalski, I. M., and Szarek, J. Monitoring Study of Pesticide Residues in Cereals and Foodstuff from Poland. 2012; 21, 1703-1712.   
Rec #: 14580  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The aim of our study was to investigate the amount of 110 pesticide residues in cereals and foodstuff from Poland as a part of official control. A total of 89 samples were collected in 2009-10. In 84.2% of the samples no residues were found: 15.8% of samples contained pesticide residues below the maximum residue limit. Pirimiphos-methyl was the most frequently found pesticide. The results show that occurrence of pesticide residues in cereals and feeding stuff could not be considered serious threats to human and animal health. Nevertheless, an investigation into continuous monitoring and tighter regulation of pesticide residues in food and feed is recommended.  
Number of Volumes: 6  
ISI Document Delivery No.: 068MT <Go to ISI>://CCC:000313371500023

423. Lu, Jinky Leilanie and Lu, Jinky Leilanie. Insecticide Residues in Eggplant Fruits, Soil, and Water in the Largest Eggplant-Producing Area in the Philippines. 2011 Sep; 220, (1-4): 413-422.   
Rec #: 3250  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This study looked into the insecticide residues in eggplant, soil, and water samples in the largest eggplant-producing community in the Philippines as well as to analyze the fate of insecticides. The study area consisted of eggplant farms in a community in the largest eggplant producer in the Philippines. A total of 20 of the environmental samples were taken from the farms and analyzed using gas chromatography. The samples were distributed spatially over a mean distance of 451 m (s.d.=20.2 m). For eggplant pesticide application, the mean spraying time of the farmers was 1.4 (sdv=0.53)h/day, 4.13 (sdv=1.9)days/week, 3.79 (sdv=0.22)weeks/month, and 1 year/cropping season. Forty percent of the farm samples of eggplants had positive reading of insecticides cypermethrin and chlorpyrifos between 0.02 and 0.03 mg/kg. There was no positive reading for the 20 water samples. There was only one positive reading of chlorpyrifos in one farm out of 20 soil samples at 0.03 mg/kg. Although Prevathon and Malathion were used by all the farms for eggplant pesticide application, the liter-years of exposure to pesticide was very low for both (0.06, 0.56). Although Brodan and Magnum were not prevalently used, they had the highest liter-years of exposure to pesticide at 4.73 for chlorpyrifos, and 6.09 for cypermethrin. The amount and duration of use of insecticide is important in the determination of its persistence in vegetables and in the environment. In this study, Brodan was the largest and longest used insecticide for eggplants which explains why there was reading for both cypermethrin and chlorpyrifos in the eggplants, but none for Malathion and chlorantraniliprole. The presence of insecticide in water, soil, and plants is also based on its environmental fate. Pesticide regulation and pesticide residue monitoring have been pursued to varying degrees of success in the Philippines, but implementation is considered inadequate. The study also suggests for better implementation of pesticide regulation.  
Keywords: Philippines  
Keywords: Atmospheric pollution  
Keywords: Water sampling  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Insecticide residues  
Keywords: Malathion  
Keywords: Chlorpyrifos  
Keywords: Soil  
Keywords: Soil pollution  
Keywords: cypermethrin  
Keywords: Insecticides  
Keywords: Gas chromatography  
Keywords: farms  
Keywords: Meteorological & Geoastrophysical Abstracts; Environment Abstracts; Pollution Abstracts  
Keywords: Pesticides  
Keywords: M2 551.5:General (551.5)  
Keywords: Seasonal variability  
Keywords: ENA 01:Air Pollution English. Date revised - 2011-09-01. Last updated - 2012-07-13. DOI - 26f4b1c2-6b15-42fa-bbadmfgefd101; 15454168; 0049-6979; 1573-2932. SubjectsTermNotLitGenreText - Soil pollution; Atmospheric pollution; Gas chromatography; Seasonal variability; Soil; Chlorpyrifos; cypermethrin; Insecticides; Water sampling; farms; Pesticides; Insecticide residues; Malathion; Philippines

424. Lu, P.; Jin, L.; Liang, B.; Zhang, J.; Li, S. P.; Feng, Z. Z., and Huang, X. Study of Biochemical Pathway and Enzyme Involved in Metsulfuron-Methyl Degradation by Ancylobacter sp XJ-412-1 Isolated from Soil. 2011; 62, 1718-1725.   
Rec #: 14610  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Ancylobacter sp. XJ-412-1, capable of degrading metsulfuron-methyl, was isolated from sulfonylurea-contaminated soil. When metsulfuron-methyl was provided as the sole carbon source, more than 90.5% of metsulfuron-methyl at concentration of 50 mg l(-1) was degraded by strain XJ-412-1 after incubation at 30 degrees C for 7 days. The initial degradation products of metsulfuron-methyl (MSM), thifensulfuron-methyl (TSM), and bensulfuron-methyl (BSM) by XJ-412-1 were identified as corresponding deesterified derivatives by liquid chromatography-mass spectrometry, which indicated a primary pathway of the deesterification of these three sulfonylurea herbicides. The carboxyesterase activity of the cell-free extracts was assayed and strongly inhibited by 4-chloromercuribenzoic acid (PCMB), diethyl pyrocarbonate (DEPC), phenylmethylsulfonyl fluoride (PMSF), and malathion.  
Number of Volumes: 6  
ISI Document Delivery No.: 790AO <Go to ISI>://CCC:000292561100010

425. Lu, Xian T; Ma, Yun; Wang, Cui; Zhang, Xiao F; Jin, Da Q; Huang, Chang J, and Lu, Xian T. Cytotoxicity and Dna Damage of Five Organophosphorus Pesticides Mediated by Oxidative Stress in Pc12 Cells and Protection by Vitamin E. 2012 May 1; 47, (5): 445-454.   
Rec #: 2690  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Previous studies have demonstrated that pesticides could induce cytotoxicity and genotoxicity in vivo and in vitro, and that oxidative stress may be an important factor involved. However, investigations comparing the capability of different organophosphorous (OP) compounds to induce cytotoxicity, genotoxicity and oxidative stress are limited. Hence, the aim of this paper was to access the cytotoxic and genotoxic effects of five OPs or metabolites, Acephate (ACE), Methamidophos (MET), Chloramidophos (CHL), Malathion (MAT) and Malaoxon (MAO), and to clarify the role of oxidative stress, using PC12 cells. The results demonstrated that MET, MAT and MAO caused significant inhibition of cell viability and increased DNA damage in PC12 cells at 40 mg L super(-1). MAO was more toxic than the other OPs. ACE, MET, MAT and MAO increased the levels of intracellular reactive oxygen species (ROS) and malondialdehyde (MDA), and decreased the activity of superoxide dismutase (SOD), catalase (CAT) and glutathione (GSH) at 20 mg L super(-1) and 40 mg L super(-1) to different degrees. Pre-treatment with vitamin E(600 mu M)caused a significant attenuation in the cytotoxic and genotoxic effect; pre-treatment reversed subsequent OP-induced elevation of peroxidation products and the decline of anti-oxidant enzyme activities. These results indicate that oxidative damage is likely to be an initiating event that contributes to the OP-induced cytotoxicity.  
Keywords: Glutathione  
Keywords: Amine oxidase (flavin-containing)  
Keywords: Metabolites  
Keywords: Malathion  
Keywords: Pheochromocytoma cells  
Keywords: Reactive oxygen species  
Keywords: Oxidative stress  
Keywords: Superoxide dismutase  
Keywords: Vitamins  
Keywords: Malondialdehyde  
Keywords: Pesticides (organophosphorus)  
Keywords: Biochemistry Abstracts 2: Nucleic Acids; Environment Abstracts  
Keywords: Peroxidation  
Keywords: methamidophos  
Keywords: Agricultural wastes  
Keywords: Genotoxicity  
Keywords: N 14820:DNA Metabolism & Structure  
Keywords: Enzymes  
Keywords: Food contamination  
Keywords: Catalase  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: DNA damage  
Keywords: Cytotoxicity  
Keywords: Vitamin E  
Keywords: Pesticides  
Keywords: DNA English. Date revised - 2012-12-01. Last updated - 2013-02-08. DOI - 7f2b8d54-58f0-4dfc-97eemfgefd114; 17452737; 0360-1234; 1532-4109. SubjectsTermNotLitGenreText - Pesticides (organophosphorus); Peroxidation; methamidophos; Glutathione; Amine oxidase (flavin-containing); Agricultural wastes; Genotoxicity; Enzymes; Metabolites; Food contamination; Malathion; Catalase; DNA damage; Vitamin E; Cytotoxicity; Pheochromocytoma cells; Reactive oxygen species; Oxidative stress; Superoxide dismutase; Pesticides; Malondialdehyde; Vitamins; DNA

426. Lv, L. L.; Yang, J. X.; Dong, X. X.; Huang, J. T., and Lv, F. Effection of Malathion on the Activity of Acetycholinesterase and Catalase of Polychaete Perinereis aibuhitensis. 2010; 29, (3): 431-436(CHI) (ENG ABS).   
Rec #: 1360  
Keywords: NON-ENGLISH  
Call Number: NON-ENGLISH (MLN)  
Notes: Chemical of Concern: MLN

427. Ma, Jiping; Xiao, Ronghui; Li, Jie; Zhao, Xiuhua; Shi, Benzhang, and Li, Shuqing. Determination of Organophosphorus Pesticides in Underground Water by Spe-Gc-Ms. 2009 Feb; 47, (2): 110-115.   
Rec #: 5120  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A rapid and effective method is developed for the determination of organophosphorus pesticides (dichlorovos, methyl parathion, malathion, and parathion) in underground water by solid-phase extraction (SPE)-gas chromatography-mass spectrometry. Some important extraction parameters including types of SPE adsorbents, elution solvents, and injection volume of water samples are optimized. The use of Cleanert-PEP polymer SPE column improved higher extraction efficiencies than the C18 SPE column commonly used. Water samples are extracted using Cleanert-PEP as SPE adsorbent and ethyl acetate as elution solvent. Precision values expressed as relative standard deviation for 1 microg/L of spiked water sample are in the range of 1.6-4.0%. Dichlorvos, methyl parathion, malathion, and parathion are linear in the range of 0.1-1.0 microg/L (r2=0.9976), 0.1-2.0 microg/L (r2=0.9883), 0.1-2.0 microg/L (r2=0.9798), and 0.055-1.1 microg/L (r2=0.9790), respectively. The limits of detection for spiked water samples are in the range of 4-10 ng/L. The optimized method is applied to the determination of underground water samples. Recoveries are between 59.5% and 94.6% for spiked underground water samples. The benefit of the method developed is rapid, simple, and has good repeatability.  
Keywords: Organophosphorus Compounds -- analysis  
Keywords: Gas Chromatography-Mass Spectrometry -- methods  
Keywords: Water Pollutants, Chemical -- analysis  
Keywords: Methyl Parathion  
Keywords: 62-73-7  
Keywords: Index Medicus  
Keywords: Methyl Parathion -- analysis  
Keywords: Solid Phase Extraction  
Keywords: Insecticides -- analysis  
Keywords: Malathion  
Keywords: Organophosphorus Compounds  
Keywords: Dichlorvos -- analysis  
Keywords: Insecticides  
Keywords: 0  
Keywords: Malathion -- analysis  
Keywords: Water Pollutants, Chemical  
Keywords: 298-00-0  
Keywords: 121-75-5  
Keywords: 56-38-2  
Keywords: Dichlorvos  
Keywords: Parathion -- analysis  
Keywords: Parathion eng. Date completed - 2009-03-06. Date created - 2009-02-19. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-19222918; 19222918; 0021-9665

428. Macedo, P. A.; Schleier, J. J.; Reed, M.; Kelley, K.; Goodman, G. W.; Brown, D. A., and Peterson, R. K. D. EVALUATION OF EFFICACY AND HUMAN HEALTH RISK OF AERIAL ULTRA-LOW VOLUME APPLICATIONS OF PYRETHRINS AND PIPERONYL BUTOXIDE FOR ADULT MOSQUITO MANAGEMENT IN RESPONSE TO WEST NILE VIRUS ACTIVITY IN SACRAMENTO COUNTY, CALIFORNIA. 2010; 26, 57-66.   
Rec #: 14640  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The Sacramento and Yolo Mosquito and Vector Control District (SYMVCD, also referred to as "the District") conducts surveillance and management of mosquitoes in Sacramento and Yolo counties in California. Following an increase in numbers and West Nile virus (WNV) infection rates of Culex tarsalis and Culex pipiens, the District decided on July 26, 2007, to conduct aerial applications of Evergreen(R) EC 60-6 (60% pyrethrins: 6% piperonyl butoxide) over approximately 215 km(2) in the north area of Sacramento County on the nights of July 30, July 31, and August 1, 2007. At the same time, the District received notification of the first human WNV case in the area. To evaluate the efficacy of the applications in decreasing mosquito abundance and infection rates, we conducted pre- and post-trapping inside and outside the spray zone and assessed human health risks from exposure to the insecticide applications. Results showed a significant decrease in abundance of both Cx. tarsalis and Cx. pipiens, and in the minimum infection rate of Cx. tarsalis. Human-health risks from exposure to the insecticide were below thresholds set by the US Environmental Protection Agency.  
Number of Volumes: 1  
ISI Document Delivery No.: 577NK <Go to ISI>://CCC:000276230200009

429. Machera, K; Tsakirakis, a; Charistou, a; Anastasiadou, P, and Glass, C R. Dermal Exposure of Pesticide Applicators as a Measure of Coverall Performance Under Field Conditions. 2009 Aug; 53, (6): 573-584.   
Rec #: 7500  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this study, the field performance of two coverall designs used by pesticide applicators was determined. Two coverall types were selected based on data from previously conducted comfort testing under field conditions in southern Europe. Dermal exposure was measured during 22 applications conducted with 11 operators using similar hand-held spray guns in greenhouse pepper crops in the Ierapetra region of Crete, Greece. One of the coverall designs studied was made from a cotton/polyester material treated with a water-repellent Resist Spills(R) finish, which was compared in the field study to a coverall of similar design, but using a woven, untreated cotton material. An in-house analytical method was developed and validated for determining residues of the active substance (a.s.) malathion on the dosimeters. The derived levels of dermal exposure were used as a measure of the protection provided by the two types of coveralls. In addition, by comparing the total amount of the a.s. recovered from outer and inner dosimeters (potential dermal exposure = 238.8 mg kg(-1) a.s. for the cotton coverall and 160.44 mg kg(-1) a.s. for the Resist Spills coverall), a value could be determined for the degree of coverall penetration. The mean penetration (milligrams per kilogram a.s.) of the outer coveralls, calculated as a percentage of the total contamination, was 0.4% for the water-repellent coverall and 2.3% for the cotton coverall. The mean recovery from the laboratory and field-fortified samples was >91 and 74%, respectively and used as the main criterion for quality control of the analytical data. Under the field trial conditions evaluated, both the coverall designs gave better protection than the default values used in the most relevant predictive exposure model. Therefore, they could be considered as appropriate tools of personal protection when both comfort and field performance is taken into account under the specific application scenario.  
Keywords: Agriculture  
Keywords: Pesticides -- analysis  
Keywords: 0  
Keywords: Greece  
Keywords: Skin Absorption  
Keywords: Humans  
Keywords: Index Medicus  
Keywords: Pesticides  
Keywords: Protective Clothing -- standards  
Keywords: Occupational Exposure -- analysis  
Keywords: Environmental Monitoring -- methods eng. Date completed - 2010-01-12. Date created - 2009-08-11. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-19474075; 19474075; 1475-3162

430. Madrid, F. J.; White, N. D. G., and Loschiavo, S. R. Insects in Stored Cereals, and Their Association with Farming Practices in Southern Manitoba. Agrobiotech Int. Inc., 35 Mount Allison Bay, Winnipeg, Manitoba, Can. R3T 3L4.//: 1991; 122, (5/6): 515-523.   
Rec #: 1340  
Keywords: NO CONC,SURVEY  
Call Number: NO CONC (MLN,PPHN), NO SURVEY (MLN,PPHN)  
Notes: Chemical of Concern: MLN,PPHN

431. Maillard, A.; Trellu, L. T.; Eicher, N.; Michaud, M., and Laffitte, E. [Management of Lice Infestations, Recommendations for 2012].   
Rec #: 8620  
Keywords: NON-ENGLISH  
Notes: Chemical of Concern: MLN   
Abstract: ABSTRACT: Pediculosis is the most frequent and contagious ectoparasitic infestation in human, particularly in children from 3 to 8 years of age. Epidemics are observed from time to time, in schools or in adults in prisons. Even though benign, these infections remain unpleasant and can have an important psyco-social impact. Since a few years, caregivers have to face increasing problems while treating lice: appearance of insecticide resistances, lindane's withdrawal from the market and the marketing of new products which are not always well evaluated. This article offers first recalls about pediculoses and then a sum up of the different available treatments with an evidence based management strategy.  
MESH HEADINGS: Animals  
MESH HEADINGS: Drug Resistance  
MESH HEADINGS: Humans  
MESH HEADINGS: Hygiene  
MESH HEADINGS: Insecticides/therapeutic use  
MESH HEADINGS: Lice Infestations/diagnosis/\*therapy/transmission  
MESH HEADINGS: Malathion/therapeutic use  
MESH HEADINGS: Oils  
MESH HEADINGS: Permethrin/therapeutic use  
MESH HEADINGS: Phytotherapy fre. Prise en charge des p‚diculoses en 2012.

432. Malhat, F. and Nasr, I. Organophosphorus Pesticides Residues in Fish Samples from the River Nile Tributaries in Egypt. 2011; 87, 689-692.   
Rec #: 14690  
Keywords: SURVEY   
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The concentration of organophosphorus pesticides in fish samples from different tributaries of the Nile River in Egypt was monitored. Fish samples were collected from El Menofiya, canal water supplies (El-Sarsawia, El-Bagoria and Bahr Shebin), in addition to El-Embaby, El-Menofi and Miet Rabiha drainage canals each 2 month during periods of 16 month, June 2007-Septemper 2008. Chloropyrifos, cadusafos, diazinon, prothiphos and malathion were detected in fish tissues samples at level below the maximum residue limit. The highest average amount of chlorpyrifos (9.38 ng g(-1)) and malathion (8.31 ng g(-1)) were detected in El-Embaby drain. Prothiphos were found in tissues collected from El-Sarsawia canal and Miet-Rabiha drain at mean concentration of 4.91 and 6.55 ng g(-1), respectively. Diazinon was only found in one fish sample that collected from El-Menofi drain at the level of 9.23 ng g(-1).  
Number of Volumes: 6  
ISI Document Delivery No.: 852MM <Go to ISI>://CCC:000297362100018

433. Mani, V. G. T. and Konar, S. K. Acute Toxicity of Some Pesticides to Fish, Plankton and Worm. 1986; 16, (5): 145, (ABS) (8431-1Q16).   
Rec #: 1730  
Keywords: ABSTRACT  
Call Number: NO ABSTRACT (CPY,MLN)  
Notes: Chemical of Concern: CHD,CPY,MLN

434. Mansour, S. A. Environmental Impact of Pesticides in Egypt. 2008: 1-51.   
Rec #: 1450  
Keywords: SURVEY  
Call Number: NO SURVEY (ADC,ATZ,AZ,CBL,CPY,CPYM,Captan,DMT,DZ,ES,MLN,MTM,PFF,PIRM,TBF)  
Notes: Chemical of Concern: ADC,AMTR,ATZ,AZ,CBL,CPY,CPYM,Captan,DDE,DDT,DMT,DZ,EN,EPRN,ES,HCCH,MLN,MTM,PCB,PFF,PIRM,PPCP,PRN,TBF,TXP

435. Markovic, Mirjana; Cupac, Svjetlana; Urovic, Rada; Milinovic, Jelena; Kljajic, Petar, and Markovic, Mirjana. Assessment of Heavy Metal and Pesticide Levels in Soil and Plant Products From Agricultural Area of Belgrade, Serbia. 2010 Feb; 58, (2): 341-351.   
Rec #: 7150  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This study was aimed to assess the levels of selected heavy metals and pesticides in soil and plant products from an agricultural area of Belgrade, Serbia and to indicate possible sources and risks of contamination. Soil, vegetable, and fruit samples from the most important agricultural city areas were collected from July to November of 2006. Metal contents were determined by atomic absorption spectrometry, whereas pesticide residues were analyzed by gas chromatography-mass spectrometry after extraction performed using solid-phase microextraction technique. Soil characterization based on the determination of selected physical and chemical properties revealed heterogeneous soils belonging to different soil groups. The concentrations of lead, cadmium, copper, and zinc in soil samples do not exceed the limits established by national and international regulations. Residues of the herbicide atrazine were detected in three soil samples, with levels lower than the relevant limit. The presence of other herbicides, namely prometryn, chloridazon, acetochlor, flurochloridone, and napropamide, was registered in some soil samples as well. Among the insecticides investigated in the soil, fenitrothion and chlorpyrifos were the only ones detected. In most of the investigated vegetable samples from the Obrenovac area, Pb and Cd contents are higher in comparison with the maximum levels, indicating the emission of coal combustion products from local thermal power plants as a possible source of contamination. Residue levels of some herbicides and insecticides (metribuzin, trifluralin, pendimethalin, bifenthrin, chlorpyrifos, and cypermethrin) determined in tomato, pepper, potato, and onion samples from Slanci, Ovca, and Obrenovac areas are even several times higher than the maximum residue levels. Inappropriate use of these plant protection products is considered to be the most probable reason of contamination. Because increased levels of heavy metals and pesticide residues found in plant products could pose a risk to consumers' health, their continual monitoring before product distribution to city markets is indispensable.  
Keywords: Vegetables  
Keywords: Contamination  
Keywords: Plant protection  
Keywords: Heavy metals  
Keywords: P 5000:LAND POLLUTION  
Keywords: Copper  
Keywords: Mass spectroscopy  
Keywords: Lead  
Keywords: Pendimethalin  
Keywords: Soil  
Keywords: Agricultural Chemicals  
Keywords: Insecticides  
Keywords: Gas chromatography  
Keywords: Solanum tuberosum  
Keywords: Consumers  
Keywords: Cadmium  
Keywords: heavy metals  
Keywords: plant protection  
Keywords: Sustainability Science Abstracts; Environmental Engineering Abstracts; Environment Abstracts; Pollution Abstracts; Aqualine Abstracts; Toxicology Abstracts  
Keywords: Chlorpyrifos  
Keywords: cypermethrin  
Keywords: metribuzin  
Keywords: Allium cepa  
Keywords: International regulations  
Keywords: Serbia  
Keywords: Fruits  
Keywords: Combustion products  
Keywords: Pesticide residues  
Keywords: M3 1010:Issues in Sustainable Development  
Keywords: Coal  
Keywords: Environmental Studies  
Keywords: Lycopersicon esculentum  
Keywords: acetochlor  
Keywords: Zinc  
Keywords: Power plants  
Keywords: X 24330:Agrochemicals  
Keywords: Urban areas  
Keywords: fruits  
Keywords: AQ 00008:Effects of Pollution  
Keywords: Herbicides  
Keywords: Fenitrothion  
Keywords: Heavy Metals  
Keywords: Spectrometry  
Keywords: Soil pollution  
Keywords: Risk  
Keywords: Atrazine  
Keywords: Pesticides  
Keywords: Trifluralin  
Keywords: Solid phase methods English. Date revised - 2010-02-01. Last updated - 2011-11-03. DOI - OB-7358bb40-85f7-4194-a49emfgefd107; 12588272; 0090-4341; 1432-0703. SubjectsTermNotLitGenreText - Fruits; Vegetables; Contamination; Pesticide residues; Heavy metals; Plant protection; Combustion products; Coal; Copper; Lead; Mass spectroscopy; Pendimethalin; Soil; Insecticides; Gas chromatography; Zinc; Power plants; Consumers; Cadmium; Herbicides; Fenitrothion; Spectrometry; Chlorpyrifos; Soil pollution; metribuzin; Pesticides; Atrazine; Trifluralin; International regulations; Solid phase methods; plant protection; fruits; acetochlor; cypermethrin; heavy metals; Urban areas; Risk; Agricultural Chemicals; Heavy Metals; Lycopersicon esculentum; Solanum tuberosum; Allium cepa; Serbia

436. Martinez, M. A. and Ballesteros, S. Two Suicidal Fatalities Due to the Ingestion of Chlorfenvinphos Formulations: Simultaneous Determination of the Pesticide and the Petroleum Distillates in Tissues by Gas Chromatography-Flame-Ionization Detection and Gas Chromatography-Mass Spectrometry. 2012; 36, 44-51.   
Rec #: 14740  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Number of Volumes: 1  
ISI Document Delivery No.: 882OU <Go to ISI>://CCC:000299574300007

437. Martinez-Tabche, L.; Romero, A. C.; Gomez-Olivan, L.; Martinez, M. G.; Hernandez, E. O., and Lopez, E. L. Effect of Malathion in Ignacio Ramirez Dam Sediments on Rainbow Trout (Onchorhynchus mykiss). 2002; 10, np.   
Rec #: 780  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

438. Martins, J.; Esteves, C.; Limpo-Faria, A.; Barros, P.; Ribeiro, N.; Simoes, T.; Correia, M., and Delerue-Matos, C. Multiresidue Method for the Determination of Organophosphorus Pesticides in Still Wine and Fortified Wine Using Solid-Phase Microextraction and Gas Chromatography - Tandem Mass Spectrometry. 2011; 44, 1021-1035.   
Rec #: 14750  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A SPME-GC-MS/MS method for the determination of eight organophosphorus pesticides (azinphos-methyl, chlorpyriphos, chlorpyriphos-methyl, diazinon, fenitrothion, fenthion, malathion, and methidathion) in still and fortified wine was developed. The extraction procedure is simple, solvent free, and without any sample pretreatment. Limits of detection (LOD) and quantitation (LOQ) values in the range 0.1-14.3 mu g/L and 0.2-43.3 mu g/L, respectively, were obtained. The LOQ values are below the maximum residue levels (MRLs) established by European Regulation for grapes, with the exception of methidathion. Coefficients of correlation (R2) higher than 0.99 were obtained for the majority of the pesticides, in all different wines analyzed.  
Number of Volumes: 6  
ISI Document Delivery No.: 746KS <Go to ISI>://CCC:000289246200006

439. Masson, Patrick and Lockridge, Oksana. Butyrylcholinesterase for protection from organophosphorus poisons: Catalytic complexities and hysteretic behavior. 2010 Feb 15-; 494, (2): 107-120.   
Rec #: 1070  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Butyrylcholinesterase is a promiscuous enzyme that displays complex kinetic behavior. It is toxicologically important because it detoxifies organophosphorus poisons (OP) by making a covalent bond with the OP. The OP and the butyrylcholinesterase are both inactivated in the process. Inactivation of butyrylcholinesterase has no adverse effects. However, inactivation of acetylcholinesterase in nerve synapses can be lethal. OP-inhibited butyrylcholinesterase and acetylcholinesterase can be reactivated with oximes provided the OP has not aged. Strategies for preventing the toxicity of OP include (a) treatment with an OP scavenger, (b) reaction of non-aged enzyme with oximes, (c) reactivation of aged enzyme, (d) slowing down aging with peripheral site ligands, and (e) design of mutants that rapidly hydrolyze OP. Option (a) has progressed through phase I clinical trials with human butyrylcholinesterase. Option (b) is in routine clinical use. The others are at the basic research level. Butyrylcholinesterase displays complex kinetic behavior including activation by positively charged esters, ability to hydrolyze amides, and a lag time (hysteresis) preceding hydrolysis of benzoylcholine and N-methylindoxyl acetate. Mass spectrometry has identified new OP binding motifs on tyrosine and lysine in proteins that have no active site serine. It is proposed, but not yet proven, that low dose exposure involves OP modification of proteins that have no active site serine. Bioscavenger/ Mass spectrometry/ Phosphylation/ Dehydroalanine/ Aryl acylamidase/ Hysteresis http://www.sciencedirect.com/science/article/pii/S0003986109004056

440. Matsumura, F. and Boush, G. M. Malathion Degradation by Trichoderma viride and a Pseudomonas Species. 1966; 151, 1278-(ABS).   
Rec #: 790  
Keywords: NOT PURSUING,ABSTRACT  
Call Number: NO ABSTRACT (MLN)  
Notes: Chemical of Concern: MLN

441. Matsumura, F. and Brown, A. W. A. Studies on Carboxyesterase in Malathion-Resistant Culex tarsalis. 1963; 56, 381-388.   
Rec #: 1960  
Keywords: IN VITRO  
Call Number: NO IN VITRO (1Major ions,CaCl2,CuS,Halides,MLN,MgCl2,ZnCl2)  
Notes: Chemical of Concern: 1Major ions,CaCl2,CuS,Halides,MLN,MgCl2,ZnCl2

442. McCully, K. A. Report on Phosphated Pesticides. 1977; 60, (2): 374-377.   
Rec #: 1480  
Keywords: CHEM METHODS  
Call Number: NO CHEM METHODS (AZ,DDVP,DMT,DS,DZ,EPH,FNT,MLN,Naled,PIRE,PRT,TBO,TMP)  
Notes: Chemical of Concern: AZ,DDVP,DMT,DS,DZ,EPH,EPRN,FNT,FNTH,MLN,Naled,PIRE,PRN,PRT,TBO,TMP

443. McEwen, L. C.; Hall, C. W.; Johnson, P.; Nebraska Game, and Forestation and Parks Commission. Effects on Wildlife of Rangeland Spraying of Malathion for Grasshopper Control. 1965: 37-(ABS).   
Rec #: 1440  
Keywords: ABSTRACT  
Call Number: NO ABSTRACT (MLN)  
Notes: Chemical of Concern: MLN

444. McKim, J. M. Evaluation of Tests with Early Life Stages of Fish for Predicting Long-Term Toxicity. 1977; 34, (8): 1148-1154.   
Rec #: 1150  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ACL,ATZ,AZ,CBL,Captan,Cr,Cr element,Cu,DZ,ES,MLN,TFN,Zn,Zn element), NO REVIEW (ACL,ATZ,AZ,CBL,Captan,Cr,Cr element,Cu,DZ,ES,MLN,TFN,Zn,Zn element)  
Notes: Chemical of Concern: ABSA,ACL,ATZ,AZ,CBL,Captan,Cr,Cu,DZ,EN,ES,HCCH,HPT,MLN,PCB,PPCP,TFN,TXP,Zn

445. ---. Physiological and Biochemical Mechanisms that Regulate the Accumulation and Toxicity of Environmental Chemicals in Fish. 1994; 2, 179-201.   
Rec #: 1500  
Keywords: MODELING  
Call Number: NO MODELING (APAC,BZO,C10OH,C8OH,FNV,MLN,PCP,PCRE,Zn,Zn element,nBUT)  
Notes: EcoReference No.: 152966  
Chemical of Concern: 24DC,APAC,Al,BZO,C10OH,C8OH,DDT,FNV,MLN,MRX,NBZ,NPH,PCB,PCP,PCRE,PL,Zn,Zn element,nBUT

446. Mdaghri, Y Alaoui; Mossadeq, a; Faroudy, M, and Sbihi, a. [Cardiac Complications Associated With Organophosphate Poisoning]. 2010 Apr; 59, (2): 114-117.   
Rec #: 7040  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The clinical picture of organophosphate poisoning is dominated by respiratory and neurological signs. Cardiac complications are rare, serious and little known by clinicians. F.B, 17 years, was addressed intubated, at the emergencies after an organosphorus poisoning. At admission, the patient was comatose with a muscarinic syndrome. Her hemodynamic was stable. Chest radiography and ECG of admission were normal. A gastric washing and a treatment by atropine were quickly started. The toxicological analysis of gastric liquid showed presence of malathion. After 20hours, the patient presented a cardiogenic shock. Chest radiography showed signs of acute pulmonary edema and ECG: a circumferential endocardic ischaemia. In spite of vasopressors and positive inotropic treatment, the patient quickly died. The autopsies revealed multiple necrosis of the heart. The cardiac symptoms are caused by many mechanisms often associated. The cardiac attack appears primarily by many electrocardiographic modifications: arrhythmias, disturb of repolarisation, conduction's disorder... On the hemodynamic plan, a circulatory insufficiency is possible. The ventricular arrhythmias, which are not treated by lidocaine or electric cardioversion are treated effectively by injection of isoproterenol and/or ventricular stimulation, and recently by the use of magnesium salts. If the clinical picture of the IOP is dominated by neurological and respiratory signs, it is always necessary to remember the possibility of cardiac complications (early or late) whose pronostic is very often bad.  
Keywords: Fatal Outcome  
Keywords: Cholinesterase Inhibitors -- poisoning  
Keywords: Myocardial Infarction -- chemically induced  
Keywords: Organophosphate Poisoning  
Keywords: Humans  
Keywords: Index Medicus  
Keywords: Cardiomegaly -- chemically induced  
Keywords: Shock, Cardiogenic -- chemically induced  
Keywords: Malathion  
Keywords: Malathion -- poisoning  
Keywords: Insecticides -- poisoning  
Keywords: Cholinesterase Inhibitors  
Keywords: 0  
Keywords: Insecticides  
Keywords: Pulmonary Edema -- chemically induced  
Keywords: Myocardial Ischemia -- chemically induced  
Keywords: 121-75-5  
Keywords: Adolescent  
Keywords: Female fre. Date completed - 2010-07-15. Date created - 2010-04-19. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-19963204; 19963204; 1768-3181

447. Mee Kin, Chai and Guan Huat, Tan. Headspace solid-phase microextraction for the evaluation of pesticide residue contents in cucumber and strawberry after washing treatment. 2010 Dec 1-; 123, (3): 760-764.   
Rec #: 820  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: The headspace solid-phase microextraction was developed to examine the organophosphorus (diazinon, malathion, chloropyrifos, quinalphos, profenofos) and organochlorine (chlorothalonil, +\_-endosulfan and +\_-endosulfan) pesticide residues in vegetable (cucumber) and fruit (strawberry) samples. The effects of washing by different solutions were evaluated for the reduction of organophosphorus and organochlorine pesticide residues contents. Gas chromatography with electron capture detection was used to analysis the investigated pesticides. The results showed that washing by a non-toxic solution can decrease the concentration of pesticide residues in the fruit and vegetable samples. The data further indicated that acetic acid was the most effective solution in removing the residues of the investigated pesticides from the fruit and vegetable samples when compared to sodium carbonate, sodium chloride and tap water. The amount of pesticides removed by solution washing is related to their water solubility and vapour pressure properties. HS-SPME/ Pesticide residues/ Washing http://www.sciencedirect.com/science/article/pii/S0308814610005984

448. Meinking, Terri L. Chapter 152 - Lice, Human (Pedic ulus and Pthirus). Vincent H. Resh and Ring T. Card+\_. Encyclopedia of Insects (Second Edition). San Diego: Academic Press; 2009: 587-588.   
Rec #: 1930  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Publisher Summary ISSN/ISBN: 978-0-12-374144-8 http://www.sciencedirect.com/science/article/pii/B9780123741448001612

449. Mendelsohn, M. L.; Moore II, D. H., and Lohman, P. H. M. A Method for Comparing and Combining Short-Term Genotoxicity Test Data: Results and Interpretation. 1992; 266, (1): 43-60.   
Rec #: 230  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (24D,24DXY,CHR,DMT,ETHN,ETU,MB,MEL,MLH,MLN,MP,PAHs,PCP,PNB,PPO,SAC,SFL), NO REVIEW (24D,24DXY,CHR,DMT,ETHN,ETU,MB,MEL,MLH,MLN,MP,PAHs,PCP,PNB,PPO,SAC,SFL)  
Notes: Chemical of Concern: 24D,24DXY,3CE,4CE,ACY,AMTL,AN,AND,BAP,BNZ,BZD,CF,CHR,CTC,DDT,DLD,DMT,DXN,DXR,EDB,EN,ETHN,ETO,ETU,FML,HPT,MB,MCPA,MEL,MLH,MLN,MP,MXC,PAHs,PCB,PCP,PHTH,PNB,PPCP,PPCP2011,PPO,SAC,SFL,TCDD,VYL

450. Meng, Junwang; Yang, Bo; Zhang, Yang; Dong, Xinyu, and Shu, Jinian. Heterogeneous ozonation of suspended malathion and chlorpyrifos particles. 2010 Apr; 79, ( 4): 394-400.   
Rec #: 10  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: The heterogeneous ozonation of suspended malathion and chlorpyrifos particles are studied in real-time with a vacuum ultraviolet photoionization aerosol time-of-flight mass spectrometer (VUV-ATOFMS). The pesticide particles with the diameter of hundreds of nanometers are generated by the homogeneous nucleation method using azelaic acid as nucleus. The reactions are carried out in an aerosol reaction chamber under ambient pressure (1 atm) and room temperature (298 K), respectively. The time-of-flight mass spectra of the solid-state ozonation products of malathion and chlorpyrifos are obtained. The assignments of the mass spectra reveal that the major ozonation products of malathion particles are s-(1,2-diethoxycarbonyl)ethyl-O,O-dimethylphosphorothioate (malaoxon), 2-mercapto-succinic acid diethylester, 1,2-dicarbethoxyethyl-dimethoxyphosphinyldisulfide and bis(1,2-bis-ethoxycarbonyl-ethyl)disulfide. The experimental results reveal that water vapor can enhance the formation of malaoxon, 2-mercapto-succinic acid diethylester and bis(1,2-bis-ethoxycarbonyl-ethyl)disulfide. In the case of chlorpyrifos, the sole ozonation product observed is 3,5,6-trichloro-2-pyridyl-diethylphosphate (chlorpyrifos oxon). The pathways of heterogeneous ozonation of malathion and chlorpyrifos particles are proposed. The atmospheric lifetimes of malathion and chlorpyrifos particles towards ozone reaction are estimated based on the time-dependent mass spectrometric signals obtained. Pesticide/ Ozonation/ Malathion/ Chlorpyrifos/ Aerosol/ AMS http://www.sciencedirect.com/science/article/pii/S0045653510001396

451. Menn, J. J. Comparative Aspects of Pesticide Metabolism in Plants and Animals. SOIL; 1978; 27, 113-124.   
Rec #: 240  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (MLN,MLO,PRT), NO REVIEW (MLN,MLO,PRT)  
Notes: Chemical of Concern: DEM,EPRN,MLN,MLO,PRN,PRT

452. Mineau, P. and Palmer, C. The Impact of the Nation's Most Widely Used Insecticides on Birds. 2013: 98 p.   
Rec #: 1810  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (CBF,CBX,CPY,Captan,DM,DMT,DZ,IMC,IPD,MFX,MLN,MLX,MOM,MTM,MZB,NNCT,RMLX,TBO,THM), NO REVIEW (CBF,CBX,CPY,Captan,DM,DMT,DZ,IMC,IPD,MFX,MLN,MLX,MOM,MTM,MZB,NNCT,RMLX,TBO,THM)  
Notes: Chemical of Concern: ACT,CBF,CBX,CPY,CTD,Captan,Conazoles,DFC,DM,DMT,DZ,FDX,IMC,IPD,MFX,MLN,MLX,MOM,MTM,MZB,RMLX,TAP,TBO,TDM,TEZ,TFT,THM,TMX,TPM

453. Mircioiu, Constantin; Voicu, Victor A.; Ionescu, Mihaela; Miron, Dalia S.; Radulescu, Flavian S., and Nicolescu, Adrian C. Evaluation of in vitro absorption, decontamination and desorption of organophosphorous compounds from skin and synthetic membranes. 2013 May 23-; 219, (2): 99-106.   
Rec #: 1440  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract Adsorptive powders/ Organophosphorous compounds/ Skin protection/ Stratum corneum http://www.sciencedirect.com/science/article/pii/S0378427413001033

454. Mishra, R. K.; Deshpande, K., and Bhand, S. A High-Throughput Enzyme Assay for Organophosphate Residues in Milk.   
Rec #: 9330  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: A rapid, high-sensitivity, chemiluminescence (CL) enzyme assay for the determination of organophosphate (OP) residues in milk is presented. The assay for quantification of OP residues in milk is based on the inhibition of enzyme butyrylcholinesterase (BuChE). BuChE was stabilized and preloaded in 384 well plates at 30 &deg;C. The assay permits rapid determination of OPs in milk within 12 min including an incubation step. The enzyme assay was tested for individual and mixtures of OPs such as methyl paraoxon (MPOx), methyl parathion (MP) and malathion (MT) in milk to evaluate their synergistic effect on BuChE inhibition. Good linearity was obtained in the range 0.005-50 &mu;g&middot;L(-1) for MPOx and 0.5-1,000 &mu;g&middot;L(-1) for MP as well as MT in milk. Mean recovery of 93.2%-98.6% was obtained for MPOx spiked milk samples with 0.99%-1.67% reproducibility (RSD). The proposed method facilitated rapid screening of milk samples in 384 well plate formats with further miniaturization presented in 1,536 well plates.  
MESH HEADINGS: Animals  
MESH HEADINGS: Biosensing Techniques  
MESH HEADINGS: Butyrylcholinesterase/chemistry/diagnostic use/metabolism/pharmacology  
MESH HEADINGS: Cattle  
MESH HEADINGS: Enzyme Assays/instrumentation/\*methods  
MESH HEADINGS: Enzyme Stability  
MESH HEADINGS: Food Contamination/\*analysis  
MESH HEADINGS: High-Throughput Screening Assays/\*methods  
MESH HEADINGS: Horses  
MESH HEADINGS: Insecticides/analysis  
MESH HEADINGS: Malathion/analysis  
MESH HEADINGS: Methyl Parathion/analysis  
MESH HEADINGS: Milk/\*chemistry  
MESH HEADINGS: Organophosphates/\*analysis/metabolism  
MESH HEADINGS: Paraoxon/analogs &amp  
MESH HEADINGS: derivatives/analysis eng

455. Mishra, Rupesh K; Dominguez, Rocio B; Bhand, Sunil; Muă±Oz, Roberto, and Marty, Jean-Louis. A Novel Automated Flow-Based Biosensor for the Determination of Organophosphate Pesticides in Milk. 2012 Feb 15; 32, (1): 56-61.   
Rec #: 5910  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This work describes the development of an automated flow-based biosensor that employs genetically modified acetylcholinesterase (AChE) enzymes B394, B4 and wild type B131. The biosensor was based on a screen printed carbon electrode (SPE) that was integrated into a flow cell. Enzymes were immobilised on cobalt (II) phthalocyanine (CoPC) modified electrodes by entrapment in a photocrosslinkable polymer (PVA-AWP). The automated flow-based biosensor was successfully used to quantify three organophosphate pesticides (OPs) in milk samples. The OPs used were chlorpyriphos-oxon (CPO), ethyl paraoxon (EPOx) and malaoxon (MOx). The total analysis time for the assay was less than 15 min. Initially, the biosensor performance was tested in phosphate buffer solution (PBS) using B394, B131 and B4 biosensors. The best detection limits were obtained with B394; therefore, this biosensor was used to produce calibration data in milk with three OPs in the concentration range of 5 Ă— 10(-6)M to 5 Ă— 10(-12)M. The limit of detection (LOD) obtained in milk for CPO, EPOx and MOx were 5 Ă— 10(-12)M, 5 Ă— 10(-9)M and 5 Ă— 10(-10)M, respectively, with a correlation coefficient R(2)=0.9910. The automated flow-based biosensor successfully quantified the OPs in different fat-containing milk samples. There were no false positives or false negatives observed for the analytical figures of merit for the constructed biosensors. This method is inexpensive, sensitive, portable, non-invasive and provides real-time results. This analytical system can provide rapid detection of highly toxic OPs in food matrices such as milk. Copyright Â© 2011 Elsevier B.V. All rights reserved.  
Keywords: Pesticides -- analysis  
Keywords: Organophosphorus Compounds -- analysis  
Keywords: Animals  
Keywords: Enzymes, Immobilized  
Keywords: Acetylcholinesterase  
Keywords: Index Medicus  
Keywords: Enzymes, Immobilized -- metabolism  
Keywords: Biosensing Techniques -- instrumentation  
Keywords: Biosensing Techniques -- methods  
Keywords: Drosophila melanogaster -- enzymology  
Keywords: Flow Injection Analysis -- methods  
Keywords: Organophosphorus Compounds  
Keywords: Equipment Design  
Keywords: 0  
Keywords: Acetylcholinesterase -- metabolism  
Keywords: Pesticides  
Keywords: EC 3.1.1.7  
Keywords: Limit of Detection  
Keywords: Milk -- chemistry  
Keywords: Flow Injection Analysis -- instrumentation eng. Date completed - 2012-05-14. Date created - 2012-01-16. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-22221795; 22221795; 1873-4235

456. Mishra, Rupesh K.; Istamboulie, George; Bhand, Sunil, and Marty, Jean-Louis. Detoxification of organophosphate residues using phosphotriesterase and their evaluation using flow based biosensor. 2012 Oct 1-; 745, (0): 64-69.   
Rec #: 760  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Among known pesticide groups, organophosphates (OPs) have grasped attention due to their hazardous nature and their applications as pesticides and chemical weapons. This work presents the development of cost-effective column based biosensor for detoxification of OPs in water and milk. Enzyme phosphotriesterase (PTE) was immobilized on an activated Sepharose 4B via covalent coupling using an Omnifit glass column. Three different OPs, ethyl paraoxon (EPOx), malaoxon (MAO) and chlorpyriphos-oxon (CPO) were spiked in water and milk to test the detoxification of OPs. Mixtures of these pesticides were also tested to check the cumulative detoxification in the real samples. The efficiency of detoxification was evaluated using a highly sensitive acetylcholinesterase (AChE) B394 biosensor based flow system. The column conditions were optimized for the detoxification studied. The method was shown to be promising when we tested real milk samples spiked with OPs. Detoxification obtained in milk was up to 86% whereas in water, 100% detoxification was obtained. Organophosphate/ Detoxification/ Phosphotriesterase/ Water/ Milk/ Flow based biosensor http://www.sciencedirect.com/science/article/pii/S0003267012010471

457. Miyata, T. Negatively Correlated Cross-Resistance to a Synthetic Pyrethroid in Malathion Resistant Laodelphax striatellus Fallen and Nilaparvata lugens Stal. 1980: (ABS).   
Rec #: 1400  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN

458. Miyata, T.; Saito, T.; Kassai, T., and Ozaki, K. Negative Cross Resistance Between Malathion and Fenvalerate in Rice Leaf Hopper. 1982.  
Rec #: 1410  
Keywords: NO SOURCE  
Notes: Chemical of Concern: FNV,MLN

459. Miyo, Takahiro and Miyo, Takahiro. Population Model of Fluctuations in Organophosphate Resistance of Drosophila Melanogaster: Roles of a Mutated Acetylcholinesterase and a Cytochrome P450. 2011 Nov; 42, (6): 510-517.   
Rec #: 6120  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The dynamics of genetic variation in susceptibility to insecticides within a natural population of Drosophila melanogaster (Meigen) was examined using model systems and experimental data published previously. In a recent study, two resistance factors for three organophosphate insecticides (OPs) were suggested to be involved within the Katsunuma population (Yamanashi Prefecture, Japan): a resistant-type acetylcholinesterase (AChE) and a cytochrome P450 monooxygenase (cytochrome P450). Within this natural population, the relative contributions of the resistanttype AChE to genetic variation in resistance to the three OPs were larger than those of the cytochrome P450. The simulation analysis by means of the model, based on genotypic density-independent population projection trajectories, suggested that seasonal fluctuations of genetic variation in resistance to the three OPs were mainly caused by the change in the frequency of the resistant-type acetylcholinesterase (Ace) gene within the population.  
Keywords: Cytochrome P450 monooxygenase  
Keywords: Data processing  
Keywords: Acetylcholinesterase  
Keywords: Genetic diversity  
Keywords: organophosphates  
Keywords: Environmental Studies  
Keywords: Models  
Keywords: Insecticides  
Keywords: Ecology Abstracts  
Keywords: Drosophila melanogaster  
Keywords: ACE protein  
Keywords: D 04040:Ecosystem and Ecology Studies  
Keywords: Cytochrome P450 English. Date revised - 2012-04-01. Last updated - 2012-08-08. DOI - OB-473e3a8e-4c6a-4e71-86edmfgefd101; 16332776; 1067-4136; 1608-3334. SubjectsTermNotLitGenreText - Cytochrome P450 monooxygenase; Data processing; Insecticides; Acetylcholinesterase; ACE protein; Genetic diversity; organophosphates; Cytochrome P450; Models; Drosophila melanogaster

460. Mohamed, Ka ; Basfar, a a; Al-Kahtani, Ha; Al-Hamad, K S, and Mohamed, KA. Radiolytic Degradation of Malathion and Lindane in Aqueous Solutions. 2009 Nov; 78, ( 11): 994-1000.   
Rec #: 4620  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Degradation of malathion and lindane pesticides present in an aqueous solution was investigated on a laboratory scale upon gamma-irradiation from a super(60)Co source. The effects of pesticide group, presence of various additives and absorbed dose on efficiency of pesticide degradation were investigated. Gamma- irradiation was carried out in distilled water solutions (malathion and lindane) and in combination with humic solution (HS), nitrous oxide (N sub(2)O) and HS/N sub(2)O (lindane) over the range 0.1-2 kGy (malathion) and 5-30 kGy (lindane). Malathion was easily degraded at low absorbed doses compared to lindane in distilled water solutions. Absorbed doses required to remove 50% and 90% of initial malathion and lindane concentrations in distilled water solutions were 0.53 and 1.77 kGy (malathion) and 17.97 and 28.79 kGy (lindane), respectively. The presence of HS, N sub(2)O and HS/N sub(2)O additives in aqueous solutions, significantly improved the effectiveness of radiolytic degradation of lindane. Chemical analysis of the pesticides and the by-products resulted from the radiolytic degradation were made using a gas chromatography associated with mass spectrometry (GC-MS). Additionally, the final degradation products of irradiation as detected by ion chromatography (IC) were acetic acid and traces of some anions (phosphate and chloride).  
Keywords: Anions  
Keywords: Degradation  
Keywords: P 0000:AIR POLLUTION  
Keywords: Chromatography  
Keywords: Byproducts  
Keywords: Chlorides  
Keywords: Mass spectrometry  
Keywords: Lindane  
Keywords: Malathion  
Keywords: Efficiency  
Keywords: Phosphates  
Keywords: Nitrous oxide  
Keywords: Gas chromatography  
Keywords: Irradiation  
Keywords: Pesticides  
Keywords: distilled water  
Keywords: Pollution Abstracts  
Keywords: Additives  
Keywords: Chemical analysis English. Date revised - 2009-10-01. Last updated - 2011-12-14. DOI - MD-0010546057; 10979586; 0969-806X. SubjectsTermNotLitGenreText - Lindane; Malathion; Degradation; Pesticides; distilled water; Additives; Irradiation; Byproducts; Chemical analysis; Efficiency; Chlorides; Phosphates; Chromatography; Mass spectrometry; Anions; Nitrous oxide; Gas chromatography

461. Mohamed, Mark F; Neverov, Alexei a, and Brown, R Stan. An Immobilized Ortho-Palladated Dimethylbenzylamine Complex as an Efficient Catalyst for the Methanolysis of Phosphorothionate Pesticides. 2009 Feb 2; 48, (3): 1183-1191.   
Rec #: 5080  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The methanolysis of a series of P=S phosphorothionate pesticides (fenitrothion, coumaphos, diazinon, and dichlofenthion) catalyzed by an ortho-palladated complex covalently attached to two different solid supports, macroporous polystyrene and amorphous silica gel, was studied. Both the polystyrene and the silica-based catalysts showed excellent activity in methanol near neutral pH (neutral s(s)pH = 8.38) at ambient temperature. These heterogeneous catalysts can be readily recovered and reused without significant loss of activity. Fifty milligrams of the silica-supported catalyst SiPd1 offered an acceleration of up to 8.6 x 10(9)-fold for the methanolysis of fenitrothion (2) over the methoxide-promoted background reaction at s(s)pH = 8.8. For the same reaction, 50 mg of polystyrene-supported complex PSPd2 provided a 3.7 x 10(9)-fold acceleration at s(s)pH = 8.8. When accounting for the amount of palladium in the solid, the slight superiority of silica over polystyrene as a solid support is believed to be a result of several possible factors including a higher concentration of active sites accessible to the reaction solvent and a more hydrophilic surface environment that allows better interaction of the methanol solvent with the attached palladacycle. Unlike the behavior in homogeneous solution, the rate of methanolysis of the substrates catalyzed by the solid catalysts was relatively insensitive to the nature of the substrate, probably indicating that a mass transport process is rate limiting. The solid-supported materials effectively decompose malathion at roughly stoichiometric ratios, but they are strongly inhibited by the thiol product resulting from the cleavage of the P=S(SR) linkage.  
Keywords: Palladium -- chemistry  
Keywords: Molecular Structure  
Keywords: Benzylamines -- chemistry  
Keywords: Index Medicus  
Keywords: Methanol  
Keywords: Organothiophosphates  
Keywords: Malathion  
Keywords: Benzylamines  
Keywords: Pesticides -- chemistry  
Keywords: Nitrogen -- chemistry  
Keywords: Malathion -- chemistry  
Keywords: 0  
Keywords: Pesticides  
Keywords: 7727-37-9  
Keywords: Organothiophosphates -- chemistry  
Keywords: 67-56-1  
Keywords: Solutions  
Keywords: 121-75-5  
Keywords: Methanol -- chemistry  
Keywords: Methylation  
Keywords: Palladium  
Keywords: 7440-05-3  
Keywords: Catalysis  
Keywords: Nitrogen eng. Date completed - 2009-02-26. Date created - 2009-01-26. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-19105733; 19105733; 1520-510X

462. Mohan, M. R. and Kumari, K. S. Histopathology of Intestine of Glossogobius giuris (Ham) Exposed to Sublethal Level of Malathion. Fishery Research Laboratory, Department of Zoology, Bangalore University, Bangalore - 560 056, India//: AQUA; 1999; 2, (3): 233-236.   
Rec #: 800  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

463. Moin-Azad, Maryam-Sadat; Soltaninejad, Kambiz; Yazdani, Shahin; Nelson, Lewis S; Shadnia, Shahin , and Moin-Azad, Maryam-Sadat. Bilateral Loculated Pleural Effusion as a Manifestation of Acute Parenteral Organophosphate Intoxication: a Case Report. 2011 Dec; 41, (6): 630-634.   
Rec #: 6030  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Background: Acute organophosphate (OP) toxicity causes a wide range of clinical effects on the respiratory system, including pulmonary bronchoconstriction and bronchorrhea. Morbidity and mortality from acute OP toxicity correlate best with pulmonary secretions. Objective: In this article, we report bilateral loculated pleural effusion as a rare pulmonary effect in a patient with acute parenteral OP toxicity. Case Report: A 25-year-old, previously healthy woman was transferred to our Poison Department 3 days after suicidal injection of malathion. At the time of presentation her vital signs were normal, except that her respiratory rate was 24 breaths/min. She complained of pleuritic chest pain and had a cough productive of yellow sputum. She had generalized chest wall tenderness, and breath sounds were decreased in the base of both lung fields. Standard therapy for OP toxicity, including atropine, pralidoxime, and diazepam, was initiated. Due to persistent pleuritic chest pain, a computed tomography (CT) scan was performed that showed bilateral loculated pleural effusions. Shortly after hospital admission, the patient developed respiratory distress, for which she was intubated and transferred to the Intensive Care Unit. She received continued medical therapy and was extubated on hospital day 3. A CT scan of the chest on hospital day 9, after completion of the treatment, documented resolution of the effusions. Conclusion: Parenteral OP toxicity occurs rarely, and in this case it was associated with bilateral loculated pleural effusions. In this regard, it should be considered in a patient with acute parenteral OP toxicity and persistent chest wall pain.  
Keywords: Toxicology Abstracts  
Keywords: Indexing in process English. Date revised - 2013-05-01. Last updated - 2013-05-31. DOI - 48bc2d99-aab4-407c-8718csamfg201; 16189435; 0736-4679

464. Monty, Chelsea Nicole and Masel, Richard. Biological Mimics: a New Paradigm in the Detection of Toxic Compounds. 2009.  
Rec #: 8190  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The purpose of this thesis is to introduce a new idea: using biological mimics in the detection of toxic compounds. Biological mimics imitate the active site of a given enzyme or have catalytic chemistry similar to enzymes and can be used in place of biological molecules to provide longer stability and simpler operation. In the following text the development and testing of two types of biological mimic sensors will be described: (1) an acetylcholinesterase mimic sensor; and (2) a non-biological inhibition based sensor. First, an acetylcholinesterase-based enzyme biosensor was developed using a multi-phase microsensor platform. The biosensor sensor was sensitive to parts-per-trillion level of toxic phosphonates, specifically malathion. However, the acetylcholinesterase sensor was only stable for 9 days with refrigeration. For portable applications, a shelf-life of 9 days is unacceptable and refrigeration is a costly alternative. In order to increase stability, oxime molecules, an acetylcholinesterase mimic, were used to detect toxic acetylcholinesterase inhibitors in multi-phase microdevice. The oxime sensor also has parts-per-trillion level sensitivity and is selective only to acetylcholinesterase inhibitors with limited shelf-life issues. The first half of this thesis will describe the development, optimization, and testing of the oxime microsensor. The second part of the thesis will focus on a new technique in chemical detection: Non-biological Inhibition Based Sensing (NIBS). This method uses a new approach to chemical amplification, where the analyte inhibits rather than enhances the rate of a catalytic reaction. Although there are many possible catalysts for this technique, such as enzymes, this thesis focuses on using the selective binding found in colorimetric detection. Colorimetric methods are selective; however, they are not particularly sensitive. Using non-biological based molecules allows for selective detection without the shelf-life issues associated with enzymes. Two examples are presented in this work: detection of toxic sulfides and toxic arsines. The second half of the thesis will focus on development, optimization, and testing of the NIBS technique. The techniques reported in this thesis can be then be expanded to mimic other biological molecules and processes. Mimic sensors could be developed for other common toxicological modes, for example, oxidative stress and phosphorylation inhibitors. The ability to detect toxins using biological mimics allows for creation of toxicity assays with the selectivity of biomolecules and the stability of chemical compounds. Other mimic sensors can be developed using the NIBS detection scheme to create a library of sensitive, selective, and portable detectors for a variety of toxin  
Start Page: 296  
ISSN/ISBN: 9781109584318  
Keywords: Biosensors  
Keywords: Biological mimics  
Keywords: Acetylcholinesterase  
Keywords: Applied sciences  
Keywords: Chemical engineering  
Keywords: Microsensors  
Keywords: Detection of toxic vapors  
Keywords: 0542:Chemical engineering English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2009. Last updated - 2012-07-09. DOI - 1956000301; 47539471; 66569; 9781109584318; 3392224. First page - n/a

465. Monzo, C.; Sabater-Munoz, B.; Urbaneja, A., and Castanera, P. The ground beetle Pseudophonus rufipes revealed as predator of Ceratitis capitata in citrus orchards. 2011; 56, 17-21.   
Rec #: 14840  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The Mediterranean fruit fly Ceratitis capitata (Wiedemann) is a major citrus pest in Spain. Although medfly is being controlled chemically, alternative biorational strategies should be developed, like those based on conservation biological control of polyphagous predators. The ground beetle Pseudophonus rufipes (De Geer) is the most abundant carabid inhabiting the ground of citrus orchards in eastern Spain. However, little is known about its activity-density and predatory role against C. capitata in the citrus agroecosystem. Here, we report on its predatory potential on the medfly's developmental stages that take place in the citrus ground. This carabid species preyed efficiently on C. capitata third instar larvae and especially on pupae but not on teneral adults. Moreover, predation under field conditions was evaluated by detecting C. capitata DNA remains using PCR-based gut-content analysis. Half-life DNA detectability of C. capitata was of 32.33 h. Pseudophonus rufipes specimens were field-collected after C. capitata sterilized pupae were deployed in a commercial citrus orchard. Thereafter, the carabids captured by pitfall traps were analyzed, being DNA-remains of C. capitata detected in 22.2% of them. Data reported here clearly suggest that P. rufipes could play an important role in regulating medfly populations in citrus orchards. This information is particularly useful when biological control conservation strategies are being considered to control this pest. (C) 2010 Elsevier Inc. All rights reserved.  
Number of Volumes: 1  
ISI Document Delivery No.: 682KF <Go to ISI>://CCC:000284401700004

466. Moore, Pamela; Patlolla, Anita; Tchounwou, Paul, and Moore, Pamela. Cytogenetic Evaluation and Biochemical Analysis of Malathion Induced Toxicity in Sprague-Dawley Rats. 2009 Apr 18.  
Rec #: 5010  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Rats  
Keywords: U 2000:Biological Sciences  
Keywords: Biochemical analysis  
Keywords: Toxicity  
Keywords: Malathion  
Keywords: Cytogenetics English. Date revised - 2009-09-28. Last updated - 2010-05-03. DOI - CPI-5276389; 5276389

467. Moore, Pamela D; Yedjou, Clement G; Tchounwou, Paul B, and Moore, Pamela D. Malathion-Induced Oxidative Stress, Cytotoxicity, and Genotoxicity in Human Liver Carcinoma (Hepg2) Cells. 2010 Jun; 25, (3): 221-226.   
Rec #: 4150  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Malathion is an organophosphate pesticide that is known for its high toxicity to insects and low to moderate potency to humans and other mammals. Its toxicity has been associated with the inhibition of acetylcholinesterase activity, leading to the interference with the transmission of nerve impulse, accumulation of acetylcholine at synaptic junctions, and subsequent induction of adverse health effects including headache, dizziness, nausea, vomiting, bradycardia, and miosis. Oxidative stress (OS) has been reported as a possible mechanism of malathion toxicity in humans. Hence, the aim of this study was to examine the role of OS in malathion-induced cytotoxicity and genotoxicity. To achieve this goal, MTT, lipid peroxidation, and single cell gel electrophoresis (Comet) assays were performed, respectively, to evaluate the levels of cell viability, malondialdehyde (MDA) production, and DNA damage in human liver carcinoma (HepG2) cells. Study results indicated that malathion is mitogenic at lower levels of exposure, and cytotoxic at higher levels of exposure. Upon 48 h of exposure, the average percentages of cell viability were 100% plus or minus 11%, 117% plus or minus 15%, 86% plus or minus 15%, 35% plus or minus 9%, and 27% plus or minus 7% for 0, 6, 12, 18, and 24 mM, respectively. In the lipid peroxidation assay, the concentrations of MDA produced were 12.55 plus or minus 0.16, 20.65 plus or minus 0.27, 31.1 plus or minus 0.40, 34.75 plus or minus 0.45, and 15.1 plus or minus 0.20 M in 0, 6, 12, 18, and 24 mM malathion, respectively. The Comet assay showed a significant increase in DNA damage at the 24 mM malathion exposure. Taken together, our results indicate that malathion exposure at higher concentrations induces cytotoxic and genotoxic effects in HepG2 cells, and its toxicity may be mediated through OS as evidenced by a significant production of MDA, an end product of lipid peroxidation.  
Keywords: Vomiting  
Keywords: Hepatocytes  
Keywords: Acetylcholinesterase  
Keywords: Organophosphates  
Keywords: Lipids  
Keywords: insects  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Malathion  
Keywords: Nerves  
Keywords: Toxicology Abstracts; Environment Abstracts; Pollution Abstracts  
Keywords: Oxidative stress  
Keywords: Bradycardia  
Keywords: Headache  
Keywords: Nausea  
Keywords: X 24330:Agrochemicals  
Keywords: Malondialdehyde  
Keywords: mammals  
Keywords: Pesticides (organophosphorus)  
Keywords: Electrophoresis  
Keywords: Genotoxicity  
Keywords: Toxicity  
Keywords: peroxidation  
Keywords: oxidative stress  
Keywords: Lipid peroxidation  
Keywords: Gel electrophoresis  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Carcinoma  
Keywords: DNA damage  
Keywords: Cytotoxicity  
Keywords: Pesticides  
Keywords: Liver  
Keywords: DNA  
Keywords: Acetylcholine  
Keywords: Comet assay English. Date revised - 2010-07-01. Last updated - 2011-12-14. DOI - f70cab7c-82dd-466e-887ecsamfg201; 13159497; 1520-4081. SubjectsTermNotLitGenreText - Pesticides (organophosphorus); Vomiting; Hepatocytes; Acetylcholinesterase; Genotoxicity; Gel electrophoresis; Malathion; Lipid peroxidation; Carcinoma; Nerves; DNA damage; Cytotoxicity; Oxidative stress; Bradycardia; Headache; Acetylcholine; Nausea; Comet assay; Malondialdehyde; mammals; Electrophoresis; Organophosphates; Lipids; Toxicity; peroxidation; insects; oxidative stress; Pesticides; Liver; DNA

468. Morgade, C. and Barquet, A. Body Distribution of Malathion and Its Metabolites in a Fatal Poisoning by Ingestion. 1982; 10, 321-325.   
Rec #: 810  
Keywords: HUMAN HEALTH  
Call Number: NO HUMAN HEALTH (MLN)  
Notes: Chemical of Concern: MLN

469. Moser, V C; Padilla, S, and Moser, V C. Esterase Metabolism of Cholinesterase Inhibitors Using Rat Liver in Vitro. 2011 Mar 15; 281, (1-3): 56-62.   
Rec #: 6480  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A variety of chemicals, such as organophosphate (OP) and carbamate pesticides, nerve agents, and industrial chemicals, inhibit acetylcholinesterase (AChE) leading to overstimulation of the cholinergic nervous system. The resultant neurotoxicity is similar across mammalian species; however, the relative potencies of the chemicals across and within species depend in part on chemical-specific metabolic and detoxification processes. Carboxylesterases and A-esterases (paraoxonases, PON) are two enzymatic detoxification pathways that have been widely studied. We used an in vitro system to measure esterase-dependent detoxification of 15 AChE inhibitors. The target enzyme AChE served as a bioassay of inhibitor concentration following incubation with detoxifying tissue. Concentration-inhibition curves were determined for the inhibitor in the presence of buffer (no liver), **rat liver** plus calcium (to stimulate PONs and thereby measure both PON and carboxylesterase), and rat liver plus EGTA (to inhibit calcium-dependent PONs, measuring carboxylesterase activity). Point estimates (concentrations calculated to produce 20, 50, and 80% inhibition) were compared across conditions and served as a measure of esterase-mediated detoxification. Results with well-known inhibitors (chlorpyrifos oxon, paraoxon, methyl paraoxon, malaoxon) were in agreement with the literature, serving to support the use of this assay. Only a few other inhibitors showed slight or a trend towards detoxification via carboxylesterases or PONs (mevinphos, aldicarb, oxamyl). There was no apparent PON- or carboxylesterase-mediated detoxification of the remaining inhibitors (carbofuran, chlorfenvinphos, dicrotophos, fenamiphos, methamidophos, methomyl, monocrotophos, phosphamidon), suggesting that the influence of esterases on these chemicals is minimal. Thus, generalizations regarding these metabolic pathways may not be appropriate. As with other aspects of AChE inhibitors, their metabolic patterns appear to be chemical-specific.  
Keywords: Detoxification  
Keywords: nerve agents  
Keywords: Calcium  
Keywords: Acetylcholinesterase  
Keywords: esterase  
Keywords: monocrotophos  
Keywords: Cholinergic nerves  
Keywords: Aryldialkylphosphatase  
Keywords: Chlorfenvinphos  
Keywords: Paraoxon  
Keywords: Cholinesterase  
Keywords: Metabolic pathways  
Keywords: X 24330:Agrochemicals  
Keywords: Pharmacy And Pharmacology  
Keywords: Carbofuran  
Keywords: methamidophos  
Keywords: Aldicarb  
Keywords: Carboxylesterase  
Keywords: Enzymes  
Keywords: organophosphates  
Keywords: Pesticides (carbamates)  
Keywords: fenamiphos  
Keywords: Chlorpyrifos  
Keywords: Neurotoxicity  
Keywords: Pesticides  
Keywords: Liver  
Keywords: Phosphamidon  
Keywords: Toxicology Abstracts  
Keywords: Pons  
Keywords: Metabolism English. Date revised - 2011-10-01. Last updated - 2011-12-13. DOI - OB-da29cd6d-c467-4928-bf77csamfg201; 14515423; 0300-483X. SubjectsTermNotLitGenreText - Detoxification; nerve agents; Calcium; Acetylcholinesterase; esterase; monocrotophos; Cholinergic nerves; Aryldialkylphosphatase; Chlorfenvinphos; Paraoxon; Cholinesterase; Metabolic pathways; methamidophos; Carbofuran; Enzymes; Carboxylesterase; Aldicarb; organophosphates; Pesticides (carbamates); Chlorpyrifos; fenamiphos; Pesticides; Neurotoxicity; Liver; Phosphamidon; Pons; Metabolism

470. Mostafalou, Sara; Eghbal, Mohammad Ali; Abdollahi, Mohammad, and Mohammadi, Sadollah. Oxidative stress and inflammation in malathion disrupted hepatic glucose metabolism. 2012 Jun 17-; 211, Supplement, (0): S174.   
Rec #: 500  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: http://www.sciencedirect.com/science/article/pii/S0378427412008892

471. Motoyama, N.; Suganuma, T., and Maekoshi, Y. Biochemical and Physiological Characteristics of Insecticide Resistance in Diamondback Moth. 1992; 45, 411-418.   
Rec #: 250  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (CBL,FNV,MLN), NO REVIEW (CBL,FNV,MLN)  
Notes: Chemical of Concern: CBL,FNV,MLN

472. Moussaoui, Yacine; Tuduri, Ludovic; Kerchich, Yacine; Meklati, B Y; Eppe, Gauthier, and Moussaoui, Yacine. Atmospheric Concentrations of Pcdd/Fs, Dl-Pcbs and Some Pesticides in Northern Algeria Using Passive Air Sampling. 2012 Jul; 88, (3): 270-277.   
Rec #: 2600  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Two monitoring campaigns were conducted in northern Algeria to assess the contamination level of pesticides and persistent organic pollutants (POPs) in ambient air. Six pesticides ( alpha - and gamma -hexachlorocyclohexane, fenitrothion, malathion, chlorpyrifos and lambda -cyhalothrin) were monitored at two different sampling locations during the first campaign. The passive sampling was performed at a semi urban/industrial site but also in a rural area between July to September 2008. The pesticides levels, analyzed by GC/MS/MS, ranged from 16pgm-3 to 11ngm-3. The second campaign was carried out from May to November 2009. The polychlorodibenzo-p-dioxins, dibenzofurans (PCDD/Fs) and dioxin-like polychlorinated biphenyls (dl-PCBs) concentrations were evaluated at an urban/industrial and at an industrial site. The PCDD/Fs and dl-PCBs, analyzed by HRGC/HRMS, ranged from 249 to 923fg TEQ m-3. In addition to passive sampling, active sampling using an isokinetic sampler was also performed at an industrial waste incinerator. The PCDD/Fs and dl-PCBs found was 268pg TEQ m-3. This paper presents the first measurements of PCDD/Fs, dl-PCBs and pesticides in rural, urban and industrial areas of northern Algeria.  
Keywords: Contamination  
Keywords: Malathion  
Keywords: Dioxins  
Keywords: Industrial wastes  
Keywords: Agricultural Chemicals  
Keywords: M2 551.510.42:Air Pollution (551.510.42)  
Keywords: Environment Abstracts; Meteorological & Geoastrophysical Abstracts; Aqualine Abstracts; Water Resources Abstracts; Pollution Abstracts  
Keywords: Pollutants  
Keywords: Industrial Wastes  
Keywords: Air sampling  
Keywords: Sampling  
Keywords: PCDD  
Keywords: Atmospheric pollution  
Keywords: SW 3050:Ultimate disposal of wastes  
Keywords: persistent organic pollutants  
Keywords: P 0000:AIR POLLUTION  
Keywords: Samplers  
Keywords: Chlorpyrifos  
Keywords: AQ 00007:Industrial Effluents  
Keywords: Pesticides  
Keywords: Incinerators  
Keywords: Persistent organic pollutants  
Keywords: Monitoring  
Keywords: Algeria  
Keywords: ENA 01:Air Pollution  
Keywords: Rural areas English. Date revised - 2012-05-01. Last updated - 2012-09-10. DOI - 7bdd568a-4484-4597-b497csamfg201; 16730500; 0045-6535. SubjectsTermNotLitGenreText - Atmospheric pollution; Rural areas; Chlorpyrifos; Industrial wastes; persistent organic pollutants; Pesticides; Air sampling; Persistent organic pollutants; Incinerators; Dioxins; Malathion; PCDD; Agricultural Chemicals; Contamination; Pollutants; Industrial Wastes; Sampling; Monitoring; Samplers; Algeria

473. Mukherjee, Irani; Arora, Sumitra, and Mukherjee, Irani. Impact Analysis of Ipm Programs in Basmati Rice by Estimation of Pesticide Residues. 2011 Mar; 86, (3): 307-313.   
Rec #: 6520  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Samples of Basmati rice grain, soil and water were collected, from IPM and non-IPM field trials conducted at four regions of Haryana, Uttar Pradesh and Uttarakhand in India, for pesticide residue analysis. Out of 45 soil samples collected, only four non-IPM samples indicated the presence of chlorpyrifos and endosulfan in the range of ND (<0.001) to 0.05mg/kg. Carbendazim used at two locations of Dehradun and Kaithal was found below detectable limit (<0.05mg/kg) in both IPM and non-IPM trials. Out of total 22 samples of water analyzed, chlorpyriphos was detected in samples from Kaithal and Pant Nagar in the range 0.003-0.006 mu L/L, alpha -endosulfan isomer was detected in the range 0.005-0.03 mu L/L and the beta-isomer in the range 0.005-0.02 mu L/L in sample from Pant Nagar and Kaithal. The residues in all the grain sample of paddy were below detectable limit (<0.001-0.05mg/kg). The insecticides applied in IPM as well as non-IPM trials were found to be below maximum residue level (MRL).  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2011-03-01. Last updated - 2011-11-09. DOI - OB-b4fc040a-6239-45aa-86demfgefd107; 14444708; 0007-4861; 1432-0800

474. Murray, Kyle E; Thomas, Sheeba M, and Bodour, Adria a. Prioritizing Research for Trace Pollutants and Emerging Contaminants in the Freshwater Environment. 2010 Dec; 158, (12): 3462-3471.   
Rec #: 6740  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organic chemicals have been detected at trace concentrations in the freshwater environment for decades. Though the term trace pollutant indicates low concentrations normally in the nanogram or microgram per liter range, many of these pollutants can exceed an acceptable daily intake (ADI) for humans. Trace pollutants referred to as emerging contaminants (ECs) have recently been detected in the freshwater environment and may have adverse human health effects. Analytical techniques continue to improve; therefore, the number and frequency of detections of ECs are increasing. It is difficult for regulators to restrict use of pollutants that are a human health hazard; scientists to improve treatment techniques for higher priority pollutants; and the public to modify consumption patterns due to the vast number of ECs and the breadth of literature on the occurrence, use, and toxicity. Hence, this paper examines literature containing occurrence and toxicity data for three broad classes of trace pollutants and ECs (industrials, pesticides, and pharmaceuticals and personal care products (PPCPs)), and assesses the relevance of 71 individual compounds. The evaluation indicates that widely used industrials (BPF) and PPCPs (AHTN, HHCB, ibuprofen, and estriol) occur frequently in samples from the freshwater environment but toxicity data were not available; thus, it is important to establish their ADI. Other widely used industrials (BDE-47, BDE-99) and pesticides (benomyl, carbendazim, aldrin, endrin, ethion, malathion, biphenthrin, and cypermethrin) have established ADI values but occurrence in the freshwater environment was not well documented. The highest priority pollutants for regulation and treatment should include industrials (PFOA, PFOS and DEHP), pesticides (diazinon, methoxychlor, and dieldrin), and PPCPs (EE2, carbamazepine, Î²E2, DEET, triclosan, acetaminophen, and E1) because they occur frequently in the freshwater environment and pose a human health hazard at environmental concentrations. Copyright Â© 2010 Elsevier Ltd. All rights reserved.  
Keywords: Pesticides -- analysis  
Keywords: Environmental Monitoring -- legislation & jurisprudence  
Keywords: Organic Chemicals  
Keywords: Water Pollutants, Chemical -- analysis  
Keywords: Organic Chemicals -- toxicity  
Keywords: Water Pollutants, Chemical -- toxicity  
Keywords: Humans  
Keywords: Index Medicus  
Keywords: Organic Chemicals -- analysis  
Keywords: Hazardous Substances -- analysis  
Keywords: Pesticides -- toxicity  
Keywords: Hazardous Substances -- toxicity  
Keywords: Industrial Waste  
Keywords: 0  
Keywords: Fresh Water -- analysis  
Keywords: Hazardous Substances  
Keywords: Pesticides  
Keywords: Water Pollutants, Chemical  
Keywords: Guidelines as Topic eng. Date completed - 2011-01-11. Date created - 2010-10-04. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-20828905; 20828905; 1873-6424

475. Musa, Safina; Gichuki, John Wageni; Raburu, Phillip Okoth; Aura, Christopher Mulanda, and Musa, Safina. Risk Assessment for Organochlorines and Organophosphates Pesticide Residues in Water and Sediments From Lower Nyando/Sondu-Miriu River Within Lake Victoria Basin, Kenya. 2011 Dec; 16, (4): 273-280.   
Rec #: 6040  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The objective of this study was to survey and document pesticide residue levels in the lower Nyando/Sondu-Miriu catchment areas of Lake Victoria, Kenya, during the dry and rainy seasons of 2009. Water and sediment samples from the Nyando/Sondu-Miriu Basin were analysed for selected pesticide residues, using gas chromatography equipped with Ni63 and CP-SIL 8CB-15m and TSD detectors for organochlorine and organophosphorus pesticide residues, respectively. The findings indicated that banned organochlorines are still being used in the catchment. Dieldrin and p,p'-DDD were notably higher (P<0.05) in concentrations than their metabolically formed analogues of aldrin and DDT, respectively. Notably, organophosphorus was below detection levels in water samples, whereas diazinon and malathion were at higher levels in sediment samples. The total residues of DDT, HCH, methoxychlor and endrin generally were below WHO drinking water limits of 2, 2, 20 and 0.01 mu gL-1, respectively, whereas aldrin and dieldrin were above the recommended values of 0.03 mu gL-1. Agricultural activities in the Lake Victoria Basin are influencing accumulation of the pesticide residues in the basin rivers and the lake. The study recommends creation of buffer zones around the natural water bodies to reduce the inflow of pesticides into water bodies. An integrated pest management approach that encourages reduced usage of chemical compounds also should be encouraged.  
Keywords: Catchment area  
Keywords: Risk assessment  
Keywords: Organochlorine compounds  
Keywords: Pesticide residues  
Keywords: M3 1010:Issues in Sustainable Development  
Keywords: Fluvial Sediments  
Keywords: Aldrin  
Keywords: Basins  
Keywords: Kenya, Victoria L.  
Keywords: Q5 01502:Methods and instruments  
Keywords: Chemical compounds  
Keywords: Kenya, Nyanza, Kisumu Dist., Sondu-Miriu R.  
Keywords: Risks  
Keywords: Lakes  
Keywords: Drinking Water  
Keywords: Agricultural Chemicals  
Keywords: Insecticides  
Keywords: SW 3060:Water treatment and distribution  
Keywords: Lake Basins  
Keywords: R2 23010:General: Models, forecasting  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: Rivers  
Keywords: Chlorine compounds  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Dieldrin  
Keywords: Catchment Areas  
Keywords: Pesticide Residues  
Keywords: Risk Abstracts; Sustainability Science Abstracts; Environment Abstracts; Aqualine Abstracts; Pollution Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; Water Resources Abstracts  
Keywords: Sediments  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Africa, Victoria L.  
Keywords: DDT  
Keywords: Pesticides  
Keywords: Catchments  
Keywords: Organic Compounds English. Date revised - 2012-02-01. Number of references - 6. Document feature - figure 3. Last updated - 2012-12-14. DOI - 2c4de153-e583-4418-8c45csamfg201; 16161086; CS1221098; 1320-5331; 1440-1770. SubjectsTermNotLitGenreText - Catchment area; Drinking Water; Chlorine compounds; Aldrin; Dieldrin; DDT; Pesticides; Chemical compounds; Risks; Risk assessment; Lakes; Organochlorine compounds; Insecticides; Pesticide residues; Catchments; Basins; Sediments; Rivers; Agricultural Chemicals; Fluvial Sediments; Catchment Areas; Pesticide Residues; Organic Compounds; Lake Basins; Africa, Victoria L.; Kenya, Victoria L.; Kenya, Nyanza, Kisumu Dist., Sondu-Miriu R. Everaarts J. M., vanWeerlee M., Fischer C. V., Hillebrand M. T. J. Environmental Behaviour of Crop Protection Chemicals. Lake Victoria Fisheries Organization. The Convention for the Establishment of the Lake Victoria Fisheries Organization. Natural Resources Institute. Natural Resources Institute Pesticide Management Section. Training Manual for Pesticide Residue Analysis. NEMA. National Environmental Management Authority, Kenya. Pest Control Product Board. Record on Annual Import Statistics of Various Pesticides Imported to Kenya. Toxicological Profile for Aldrin/Dieldrin. (1989)

476. Muturi, Ephantus; Alto, Barry; Lampman, Richard, and Muturi, Ephantus. Effect of Temperature and Sublethal Doses of Malathion on Perfomance and Vector Potential of Culex Restuans and Aedes Albopictus. 2009 Dec 13.  
Rec #: 4490  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Temperature effects  
Keywords: U 2000:Biological Sciences  
Keywords: Vectors  
Keywords: Culex restuans  
Keywords: Aedes albopictus  
Keywords: Aquatic insects  
Keywords: Malathion  
Keywords: Abiotic factors English. Date revised - 2010-04-06. Last updated - 2010-05-03. DOI - CPI-5629188; 5629188

477. Muturi, Ephantus and Muturi, Ephantus. Larval Rearing Temperature Influences the Effect of Malathion on Aedes Aegypti (Diptera: Culicidae) Life History Traits and Immune Responses. 2012 Nov 11.  
Rec #: 2440  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Temperature effects  
Keywords: Aedes aegypti  
Keywords: Life history  
Keywords: Larvae  
Keywords: Culicidae  
Keywords: Immune response  
Keywords: Diptera  
Keywords: Aquatic insects  
Keywords: Malathion  
Keywords: Abiotic factors English. Date revised - 2013-02-26. Last updated - 2013-02-28. DOI - CPI-6165472; 6165472

478. Nardemir, Gokce; Agar, Guleray; Yanmis, Derya; Erturk, F l z Aygun; Arslan, Esra, and Bozari, Sedat. Epigenetic effects of malathion on seeds of Triticumaestivum: Eurobiotech 2012 Agriculture Symposium. 2012 Nov; 161, Supplement, (0): 31.   
Rec #: 510  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: http://www.sciencedirect.com/science/article/pii/S016816561200483X

479. Nasrabadi, Touraj; Nabi Bidhendi, Gholamreza; Karbassi, Abdolreza; Grathwohl, Peter, and Mehrdadi, Nasser. Impact of Major Organophosphate Pesticides Used in Agriculture to Surface Water and Sediment Quality (Southern Caspian Sea Basin, Haraz River). 2011 Jun; 63, (4): 873-883.   
Rec #: 6330  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organophosphate pesticides are compounds that are not only toxic to both humans and wildlife but also difficult to degrade under natural environmental conditions. In Iran, agricultural practices are strongly dependent on the use of pesticides due to climatic and soil conditions, thus posing a potential risk to groundwater quality standards. Evaluating the concentration of organophosphate pesticides namely diazinon, fenitrothion, dichlorvos, ethion, profenofos, malathion and azinphos methyl in water samples in May (low precipitation rate), December (high precipitation rate) as well as the concentration in sediments along the Haraz River is taken into consideration in this study. Generally the pesticides concentration in water samples are relatively higher in May in comparison with that in December; this fact may be due to two major reasons: the first reason is attributed to the prompt raining after the treatment period of most orchards and dry farming lands that will terminate in more wash out of such pesticides towards the branches and main river channel, while the second reason may be considered as the less river water dilution rate in May because of lower precipitation rate. Furthermore, the relatively higher concentrations in downstream stations may be contributed to more intensified agricultural (specially rice paddies), urban and rural land uses in this region in comparison with upstream areas which contain mainly dry farming, grazing lands and orchards with relatively lower loads of pesticides. Additionally, as the Henry's law constant of all pesticides considered in this study are relatively low, volatilization may not be regarded as an important route of dissipation. Diazinon, azinphos methyl and dichlorvos showed the highest water concentrations in comparison with other pesticides that may be justified by their extended use within the basin during last decades. Based on the chemical properties as well as remarkably higher values in sediment samples in comparison with water ones, it is concluded that the two pesticides, ethion and fenitrothion, persist in the environment due to non-degradable tendencies. Although the concentration of mentioned pesticides is not so high in the water samples, more precautions must be considered in their future use. Regarding the sorption coefficient variation alongside the river, the higher values in upstream and central parts may be attributed to the higher potential of different types of erosion regarding deeper slopes and also sand, gravel and carbonate mining activities at the banks and also river bed in such regions which is considered as an anthropogenic disturbance. In case of central parts, in addition to mentioned reasons, the existence of coal outcrops in the geologic texture of the study area may also be considered as a key role in augmentation of the sorption coefficient. Finally, the dominant clayey and loamy soils containing more organics may be attributed as the major reason of sorption tendency in downstream.[PUBLICATION ABSTRACT]  
Keywords: Earth Sciences--Geology  
Keywords: Surface water  
Keywords: Environmental science  
Keywords: Pesticides  
Keywords: Water pollution  
Keywords: Sediments English. Copyright - Springer-Verlag 2011. Last updated - 2011-08-26. DOI - 2416939531; 63360521; 109050; EVGY; SPVLEVGY12665634757

480. Natarajan, A. V. and Gowri, N. Effect of Malathion on the Cytochrome P-450 Content of Liver Microsomes in a Fish Ophiocephalus punctatus. 573//: AQUA; 1991; 15, (1-2): 17-20.   
Rec #: 820  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

481. Nielsen, Jesper Bo and Nielsen, Jesper Bo. Efficacy of Skin Wash on Dermal Absorption: an in Vitro Study on Four Model Compounds of Varying Solubility. 2010 Aug; 83, (6): 683-690.   
Rec #: 6920  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Purpose: Following dermal exposure to chemicals causing systemic toxicity, the general advice to avoid further systemic exposure is to wash the skin. The present study uses four model compounds (benzoic acid, glyphosat, caffeine, malathion) with varying size and solubility to substantiate this advice and quantify the effect of skin wash following 6h dermal exposure on subsequent extent of skin penetration and deposition within the skin compartment. Method: Percutaneous penetration through human skin is studied in an in vitro model with static diffusion cells. Results: The study demonstrates that percutaneous penetration continues after end of exposure due to the reservoir present in the skin. However, penetration rate will decrease significantly, and it is evident that simple hand-wash after end of exposure not only reduces the amount of residue present in the upper skin compartment but also significantly reduces the total absorption of test substance, most so for the hydrophilic compounds. Conclusion: Our observations support the continuing initiatives from occupational hygienists to urge people with dermal exposure hazards to wash potentially exposed skin areas.  
Keywords: Occupational Health And Safety  
Keywords: Pollution Abstracts English. Date revised - 2010-08-01. Last updated - 2011-11-02. DOI - OB-50e5827a-da7a-4e45-94ccmfgefd101; 13224182; 0340-0131; 1432-1246

482. Nillos, Mae Grace; Gan, Jay, and Schlenk, Daniel. Chirality of organophosphorus pesticides: Analysis and toxicity: BIOANALYSIS OF ORGANOPHOSPHORUS TOXICANTS AND CORRESPONDING ANTIDOTES. 2010 May 15-; 878, (17Çô18): 1277-1284.   
Rec #: 1320  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Although the importance of chirality in organophosphorus compounds (OPs) is well recognized in relation to their biological effects, as with most chiral pesticides, OPs are generally marketed, used and released to the environment as racemates (i.e., equimolar mixtures of enantiomers). In addition, research on enantioselective environmental fate and effects of chiral OPs is still limited, particularly in the evaluation of enantioselectivity in their environmental degradation. A large number of OPs are chiral compounds, and yet enantioselectivity in their environmental fate and effects is rarely addressed. This paper highlights the current state of knowledge on the environmental occurrence and behavior of chiral OP pesticides. Developments in enantioselective analytical techniques, specifically gas chromatography (GC), high-performance liquid chromatography (HPLC) and capillary electrophoresis (CE), as applied in the evaluation of enantiomer-specific fate and effects of chiral OPs, are also discussed. Chiral analysis/ Enantioselective analysis/ Stereoisomers/ Enantiomers/ Organophosphate insecticides/ Organophosphorus compounds (OPs) http://www.sciencedirect.com/science/article/pii/S1570023209007843

483. Nofal, a and Nofal, A. A Comparative Study of Oral Ivermectin and Topical Malathion Lotion in the Treatment of Head Lice. 2009 Oct 7.  
Rec #: 4650  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Comparative studies  
Keywords: Lotions  
Keywords: U 2000:Biological Sciences  
Keywords: Head  
Keywords: Ivermectin  
Keywords: Malathion English. Date revised - 2010-04-06. Last updated - 2010-05-03. DOI - CPI-5489956; 5489956

484. Nogaim, Q; Amra, H; Abou-Donia, M; Abou-Arab, a, and Nogaim, Q. Occurrence of Chemical Contaminants in Egyptian Edible Mushroom. 2011; 9, (2): 134-139.   
Rec #: 3810  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Mushroom is considered as healthy food, it contains high level of proteins. It can be contaminated by chemical contaminants. So, this study aimed to evaluate the presence of heavy metal and pesticide residues in Agaricus and Pelurotus sp. as Egyptian edible mushroom. Results showed that, 12 elements were detected as AI, Cd, Fe, K, Mg, Mn, Na, Ni, Se, Zn, B and Pb. The average concentrations of first ten elements in winter and spring were (21.87, 17.13), (0.089, 0.077), (25.82, 29.96), (29580.86, 26748.73), (163.89, 148.20), (5.40, 6.10), (1091.38, 1232.13), (0.927, 0.714), (11.47, 9.10) and (48.62, 68.56) mg/Kg dry weight of Agaricus, respectively. While B and Pb were not recorded in any of the analyzed samples. In Pleurotus sp., the determined concentrations of the same elements were (22.12, 38.67), (0.06, 0.088), (140.93, 125.24), (21033.15, 25147.38), (116.53, 139.33), (8.66, 6.08), (1389.32, 1075.39), (0.46, 0.43), (5.10, 6.61) and (77.34, 101.94) mg/kg dry weight, during the same two seasons, respectively. Pesticide residues were also investigated in both species of mushroom. Organophosphorus (OP) pesticide residues like phorate, diazinon, chloropyrifos-Me, pirmiphos, dorsban and profenofos were not found in any of the analyzed samples, while malathion was found with an average concentration of 0.1380 and 0.1387 mu /g dry weight in Agaricus sp. samples in winter and spring, respectively. While, in Pleurotus samples it was determined as 0.1072 and 0.944 mu g/g dry weight during the same two seasons, respectively. Thiometon was found in an average concentration as 0.5579 and 0.6107 mu g/g dry weight in samples of Pleurotus in winter and spring, respectively. Organochlorine pesticides (OC), like HCB, heptachlor, dieldrin, endrin, o,p'-DDD, p,p'-DDD, o,p'-DDT residues were not found in any of the analyzed samples, while p,p'-DDT with an average concentration of 0.0032 and 0.0043 mu g/g dry weight was found in samples of Pleurotus in winter and spring, respectively. Lindane was detected in samples of Agaricus sp., with an average concentration of 0.0093 and 0.011 mu g/g dry weight, also, it was recorded in Pleurotus sp. with an average concentration as 0.0114 and 0.0057 mu g/g dry weight in the winter and spring seasons, respectively. We conclude that, The content of chemical contaminants in Egyptian edible mushrooms studied during this work are moderate, while, the heavy metals were found in low concentrations and they are less than the international acceptable limits of codex, FAO and WHO. Moreover, the positive samples for pesticide residues were in the permissible limits. So, edible mushrooms can be used in preparing our foods to gain its benefit of high nutrition value.  
Keywords: Heavy metals  
Keywords: Pollution Abstracts; Microbiology Abstracts C: Algology, Mycology & Protozoology  
Keywords: Pesticide residues  
Keywords: phorate  
Keywords: Food  
Keywords: Nutrition  
Keywords: Malathion  
Keywords: Lead  
Keywords: Winter  
Keywords: P 9999:GENERAL POLLUTION  
Keywords: Zinc  
Keywords: Cadmium  
Keywords: Chemical pollution  
Keywords: Manganese  
Keywords: K 03420:Plant Diseases  
Keywords: Pakistan  
Keywords: heptachlor  
Keywords: Dieldrin  
Keywords: Pesticides (organochlorine)  
Keywords: Lindane  
Keywords: Agaricus  
Keywords: Basidiocarps  
Keywords: Pleurotus  
Keywords: Endrin  
Keywords: Contaminants  
Keywords: Diazinon English. Date revised - 2012-07-01. Last updated - 2012-12-03. DOI - MD-0018352516; 16449453; 1727-4915. SubjectsTermNotLitGenreText - phorate; Pesticide residues; Heavy metals; heptachlor; Food; Dieldrin; Pesticides (organochlorine); Lindane; Basidiocarps; Nutrition; Malathion; Lead; Zinc; Cadmium; Endrin; Contaminants; Manganese; Diazinon; Chemical pollution; Winter; Pleurotus; Agaricus; Pakistan

485. Noort, D; Hulst, a G; Zuylen, a; Rijssel, E; Schans, Mj, and Noort, D. Covalent Binding of Organophosphorothioates to Albumin: a New Perspective for Op-Pesticide Biomonitoring? 2009 Nov; 83, (11): 1031-1036.   
Rec #: 7320  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: We here report on the covalent binding of various organophosphorothioate (OPT) pesticides to albumin at in vitro exposure levels that did not give rise to butyrylcholinesterase inhibition. Adduct formation occurred at the Tyr-411 residue of albumin, as was firmly corroborated by LC-tandem MS analysis of a pepsin digest of OPT-modified albumin. It cannot be excluded that other (tyrosine) residues become modified as well. A convenient method for mass spectrometric determination of the OPT tyrosine adduct has also been developed based on the pronase digestion of albumin and subsequent LC-tandem MS analysis of the digest. The resulting tyrosine phosphorothioate ester displayed favorable chromatographic and mass spectrometric properties for sensitive analysis. In vitro exposure levels of parathion and chlorpyrifos down to 1 mu M could readily be assessed. The remarkable affinity of OPTs for albumin opens the way for a more complete assessment of OP pesticide exposure.  
Keywords: Pharmacy And Pharmacology  
Keywords: X 24330:Agrochemicals  
Keywords: Toxicology Abstracts English. Date revised - 2010-02-01. Last updated - 2011-11-08. DOI - OB-MD-0010854220; 11238871; 0340-5761; 1432-0738

486. Norris, M. V. and Kuchar, E. J. Colorimetric Estimation of Malathion Residues in Cottonseed. 1959; 7, 488-489.   
Rec #: 1380  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN

487. Nougad+¿re, Alexandre; Sirot, V+ ronique; Kadar, Ali; Fastier, Antony; Truchot, Eric; Vergnet, Claude; Hommet, Fr+ d+ ric; Bayl+\_, Jo+ lle; Gros, Philippe, and Leblanc, Jean-Charles. Total diet study on pesticide residues in France: Levels in food as consumed and chronic dietary risk to consumers. 2012 Sep 15-; 45, (0): 135-150.   
Rec #: 1850  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Chronic dietary exposure to pesticide residues was assessed for the French population using a total diet study (TDS) to take into account realistic levels in foods as consumed at home (table-ready). Three hundred and twenty-five pesticides and their transformation products, grouped into 283 pesticides according to their residue definition, were sought in 1235 composite samples corresponding to 194 individual food items that cover 90% of the adult and child diet. To make up the composite samples, about 19,000 food products were bought during different seasons from 2007 to 2009 in 36 French cities and prepared according to the food preparation practices recorded in the individual and national consumption survey (INCA2). The results showed that 37% of the samples contained one or more residues. Seventy-three pesticides were detected and 55 quantified at levels ranging from 0.003 to 8.7 mg/kg. The most frequently detected pesticides, identified as monitoring priorities in 2006, were the post-harvest insecticides pirimiphos-methyl and chlorpyrifos-methylÇöparticularly in wheat-based productsÇötogether with chlorpyrifos, iprodione, carbendazim and imazalil, mainly in fruit and fruit juices. Dietary intakes were estimated for each subject of INCA2 survey, under two contamination scenarios to handle left-censored data: lower-bound scenario (LB) where undetected results were set to zero, and upper-bound (UB) scenario where undetected results were set to the detection limit. For 90% of the pesticides, exposure levels were below the acceptable daily intake (ADI) under the two scenarios. Under the LB scenario, which tends to underestimate exposure levels, only dimethoate intakes exceeded the ADI for high level consumers of cherry (0.6% of children and 0.4% of adults). This pesticide, authorised in Europe, and its metabolite were detected in both cherries and endives. Under the UB scenario, that overestimates exposure, a chronic risk could not be excluded for nine other pesticides (dithiocarbamates, ethoprophos, carbofuran, diazinon, methamidophos, disulfoton, dieldrin, endrin and heptachlor). For these pesticides, more sensitive analyses of the main food contributors are needed in order to refine exposure assessment. Pesticide residues/ Food safety/ Total diet study/ Estimated dietary intake/ Risk assessment/ France http://www.sciencedirect.com/science/article/pii/S0160412012000335

488. Nougadere, Alexandre; Reninger, Jean-Cedric; Volatier, Jean-Luc; Leblanc, Jean-Charles, and Nougadere, Alexandre. Chronic Dietary Risk Characterization for Pesticide Residues: a Ranking and Scoring Method Integrating Agricultural Uses and Food Contamination Data. 2011 Jul; 49, (7): 1484-1510.   
Rec #: 6260  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A method has been developed to identify pesticide residues and foodstuffs for inclusion in national monitoring programs with different priority levels. It combines two chronic dietary intake indicators: ATMDI based on maximum residue levels and agricultural uses, and EDI on food contamination data. The mean and 95th percentile of exposure were calculated for 490 substances using individual and national consumption data. The results show that mean ATMDI exceeds the acceptable daily intake (ADI) for 10% of the pesticides, and the mean upper-bound EDI is above the ADI for 1.8% of substances. A seven-level risk scale is presented for substances already analyzed in food in France and substances not currently sought. Of 336 substances analyzed, 70 pesticides of concern (levels 2-5) should be particularly monitored, 22 of which are priority pesticides (levels 4 and 5). Of 154 substances not sought, 36 pesticides of concern (levels 2-4) should be included in monitoring programs, including 8 priority pesticides (level 4). In order to refine exposure assessment, analytical improvements and developments are needed to lower the analytical limits for priority pesticide/commodity combinations. Developed nationally, this method could be applied at different geographic scales.  
Keywords: Diets  
Keywords: France  
Keywords: Food And Food Industries  
Keywords: Pesticide residues  
Keywords: Health & Safety Science Abstracts; Toxicology Abstracts  
Keywords: Ingestion  
Keywords: Food contamination  
Keywords: H 4000:Food and Drugs English. Date revised - 2011-10-01. Last updated - 2011-12-10. DOI - OB-fbf7de86-c1f4-4618-8067csaobj201; 15161865; 0278-6915. SubjectsTermNotLitGenreText - Diets; Pesticide residues; Ingestion; Food contamination; France

489. O'Halloran, K.; Ahokas, J. T., and Wright, P. F. A. The Adverse Effects of Aquatic Contaminants on Fish Immune Responses. 1998; 4, (1): 9-28.   
Rec #: 1650  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (Cr,Cr element,Cu,DDVP,EFV,ES,MLN,MP,PCP,TCF,Zn,Zn element), NO REVIEW (Cr,Cr element,Cu,DDVP,EFV,ES,MLN,MP,PCP,TCF,Zn,Zn element)  
Notes: Chemical of Concern: Al,BAP,Cr,Cu,DDVP,DMBA,DXN,EFV,ES,HCCH,MLN,MP,PAHs,PCP,PL,PPCP,TCDD,TCF,Zn,Zn element

490. Odhiambo, T. R. Aspects of Integrated Pest and Vector Management in Africa. 1989; 1, (2): 4-10.   
Rec #: 260  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ACP,CBL,CPY,DDVP,DM,DZ,FNT,FNV,LCYT,MLN,PIRM,PPX), NO REVIEW (ACP,CBL,CPY,DDVP,DM,DZ,FNT,FNV,LCYT,MLN,PIRM,PPX)  
Notes: Chemical of Concern: ACP,ACYP,BDC,CBL,CPY,DDVP,DLD,DM,DZ,FNT,FNV,LCYT,MLN,PIRM,PPX

491. Ogut, S.; Kucukoner, E., and Gultekin, F. The effects of pesticides on greenhouse workers and their produced products. 2012; 94, 403-410.   
Rec #: 15060  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pesticides are chemicals used in agriculture but are known to produce adverse effects on humans. In this study, blood activities of superoxide dismutase (SOD), catalase (CAT), aspartate transaminase (AST), alanine transaminase (ALT), gamma-glutamyl transaminase, lactate dehydrogenase (LDH), and levels of malondialdhyde (MDA) were determined in 44 greenhouse workers (24 tomato workers, 20 clove workers) and in tomato (24 samples) and clove (20 samples) products. At the end of this study, blood MDA levels and activities of ALT, AST, and LDH levels in greenhouse workers were significantly increased while SOD and CAT activity levels fell significantly. Pesticide residues were not found in agricultural worker blood. Malathion residues (average 0.8 ppm) were detected in tomatoes (8 samples) in these greenhouses. Data suggest that the health of the greenhouse workers may be adversely affected by pesticides.  
Number of Volumes: 2  
ISI Document Delivery No.: 923CV <Go to ISI>://CCC:000302597600016

492. Olaharski, Andrew; Albertini, Silvio; Kirchner, Stephan; Platz, Stefan; Uppal, Hirdesh; Lin, Henry, and Kolaja, Kyle. Evaluation of the GreenScreen GADD45+\_-GFP indicator assay with non-proprietary and proprietary compounds. 2009 Jan 10-; 672, (1): 10-16.   
Rec #: 1690  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: The GreenScreen GADD45+\_ indicator assay has been assessed for its concordance with in vitro genotoxicity and rodent carcinogenicity bioassay data. To test robustness, sensitivity, and specificity of the assay, 91 compounds with known genotoxicity results were screened in a blinded manner. Fifty seven of the compounds were classified as in vitro genotoxic whereas 34 were non-genotoxic. Out of the 91 compounds, 50 had been tested in 2-year carcinogenicity assays, with 33 identified to be rodent carcinogens and 17 non-carcinogens. Gadd45+\_ assay sensitivity and specificity for genotoxicity was 30% and 97%, respectively (17/57 and 33/34), whereas its sensitivity and specificity for rodent carcinogenicity was 30% and 88%, respectively (10/33 and 15/17). Gadd45+\_ assay genotoxicity results from this validation study exhibited a high concordance with previously published results as well as for compound test results generated at two different sites (91%, 19/21), indicating that the assay is both robust and reproducible. In conclusion, results from this blinded and independent validation study indicate that the GreenScreen GADD45 indicator assay is reproducible and reliable with low sensitivity and high specificity for identifying genotoxic and carcinogenic compounds. Gadd45+\_/ Ames assay/ Micronucleus assay/ Rodent carcinogen/ Mutagen/ Clastogen http://www.sciencedirect.com/science/article/pii/S1383571808002428

493. Olson, D. L. and Christensen, G. M. Effects of Water Pollutants and Other Chemicals on Fish Acetylcholinesterase (In Vitro). 8346//: 1980; 21, 327-335.   
Rec #: 1120  
Keywords: IN VITRO  
Call Number: NO IN VITRO (1Major ions,AgCl,AgN,CBL,CaCl2,Captan,CuCl,DZ,EPTC,HOX,Halides,KCN,MLN,MLO,MgCl2,NCTN,NaCl,NaN3,NaNO3,SFL,THM,ZnCl2)  
Notes: Chemical of Concern: AND,AgCl,AgN,AsO3Na,AsO4Na,CBL,CaCl2,Captan,CdCl,CrCl3,CuCl,DDT,DLD,DZ,EDTA,EPTC,FeCl,FeCl3,HCCH,HOX,Halides,HgCl2,K2Cr2O7,KCN,MLN,MLO,MgCl2,NCTN,NHCl,NaCl,NaN3,NaNO3,PPCP,PbN,SFL,THM,ZnCl2

494. Opong-Mensah, K. A Review of Temephos with Particular Reference to the West African Onchocerciasis Control Program. 1984; 91, 47-69.   
Rec #: 950  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (CPY,FNT,MLN,TMP), NO REVIEW (CPY,FNT,MLN,TMP)  
Notes: Chemical of Concern: CPY,FNT,FNTH,MLN,TMP

495. Ortiz-Urquiza, A.; Garrido-Jurado, I.; Borrego, A., and Quesada-Moraga, E. Effects of cultural conditions on fungal biomass, blastospore yields and toxicity of fungal secreted proteins in batch cultures of Metarhizium anisopliae (Ascomycota: Hypocreales). 2010; 66, 725-735.   
Rec #: 15100  
Keywords: BIOLOGICAL TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: BACKGROUND: Recently, two fungal proteins with apparent molecular masses of 11 and 15 kDa and insecticidal activity against Ceratitis capitata (Wied.) have been purified from the crude soluble protein extract (CSPE) secreted by the entomopathogenic fungus Metarhizium anisopliae (Metsch.) Sorokin (strain EAMa 01/58-Su) in Adamek's liquid medium. The feasibility of culturing this strain in fermentation facilities in order to harvest and formulate the insecticidal proteins for C. capitata control is mainly dependent on the ability to produce high concentrations of the active proteins at a reasonable cost. RESULTS: **These studies report that, in batch cultures of EAMa 01/58-Su strain, the carbon (C) and nitrogen (N) ratios and sources are important considerations with respect to fungal biomass production, blastospore yield and secretion of insecticidal proteins against C. capitata adults.** The data indicate that the type and concentration of N source in the medium influence the production of insecticidal protein and thus the toxicity of the CSPEs. The electrophoretic analysis suggests that the monomer of 11 kDa plays an important role in the insecticidal effect described. Concerning biomass production, no clear differences were found between media with different C and N sources and C: N ratios in total biomass production at day 7. Conversely, important differences were found among the media in terms of blastospore yields. CONCLUSIONS: By optimising the culture media, the insecticidal effect of the CSPE against C. capitata can be improved. In the CSPE from G(40):P(20) (40 g L(-1) glucose and 20 g L(-1) peptone in dH(2)O), the LC(50) and the LT(50) were 7 and 4.5 times lower than in the CSPE obtained from Adamek. (C) 2010 Society of Chemical Industry  
Number of Volumes: 7  
ISI Document Delivery No.: 615IX <Go to ISI>://CCC:000279129300006

496. Osman, Ka; Al-Humaid, a M; Al-Rehiayani, S M; Al-Redhaiman, K N, and Osman, KA. Monitoring of Pesticide Residues in Vegetables Marketed in Al-Qassim Region, Saudi Arabia. 2010 Sep; 73, (6): 1433-1439.   
Rec #: 6850  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A total of 23 pesticides from different chemical groups in 160 different domestic vegetables collected from four major big supermarkets located in Al-Qassim region, Saudi Arabia, were identified by gas chromatography with mass spectrometry (GC-MS). Residues were found in 89 of the 160 samples and 53 samples were above the maximum residue levels (MRLs). The most frequently found pesticides were carbaryl followed by biphenyl and then carbofuran. Cabbage was the most positive and violated MLRs (16 and 11 samples), followed by carrot and green pepper (12 and 7 samples), cucumber (12 and 6 samples), egg-plant (12 and 5 samples), squash (11 and 7 samples), lettuce (11 and 6 samples) and tomato (11 and 4 samples). The highest concentrations were found in lettuce (ethiofencarb, 7.648), followed by tomato (tolclofos-methyl, 7.312mg/kg), cabbage (chlropyrifos, 6.207mg/kg), carrot (heptanophos, 3.267mg/kg), green pepper (carbaryl, 2.228mg/kg) and egg-plant (carbaryl, 1.917mg/kg). These findings pointed to the following recommendation: the need for a monitoring program for pesticide residues in vegetables cultivated under greenhouse conditions at the national level to protect consumers' health.  
Keywords: Saudi Arabia  
Keywords: Vegetables  
Keywords: Carbofuran  
Keywords: ENA 09:Land Use & Planning  
Keywords: Pesticide residues  
Keywords: Environmental Studies--Toxicology And Environmental Safety  
Keywords: Mass spectrometry  
Keywords: Carbaryl  
Keywords: carbofuran  
Keywords: Daucus  
Keywords: tolclofos-methyl  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Brassica  
Keywords: Mass spectroscopy  
Keywords: Greenhouses  
Keywords: Biphenyl  
Keywords: Lycopersicon esculentum  
Keywords: Gas chromatography  
Keywords: Pesticides  
Keywords: greenhouses  
Keywords: consumer protection  
Keywords: Consumers  
Keywords: X 24330:Agrochemicals  
Keywords: Environment Abstracts; Toxicology Abstracts; Pollution Abstracts English. Date revised - 2011-10-01. Last updated - 2011-12-08. DOI - OB-a70eb114-762f-4952-b289csaobj202; 13667585; 0147-6513. SubjectsTermNotLitGenreText - Biphenyl; Vegetables; Carbofuran; Gas chromatography; Pesticide residues; Pesticides; Carbaryl; Consumers; tolclofos-methyl; Mass spectroscopy; Greenhouses; greenhouses; Mass spectrometry; consumer protection; carbofuran; Lycopersicon esculentum; Daucus; Brassica; Saudi Arabia

497. Ostrea, E. M.; Reyes, A.; Villanueva-Uy, E.; Pacifico, R.; Benitez, B.; Ramos, E.; Bernardo, R. C. ; Bielawski, D. M.; Delaney-Black, V.; Chiodo, L.; Janisse, J. J., and Ager, J. W. Fetal exposure to propoxur and abnormal child neurodevelopment at 2 years of age. 2012; 33, 669-675.   
Rec #: 15120  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Objective: Our aim was to determine the effects of fetal exposure to propoxur and pyrethroids, on child neurodevelopment at 2 years of age. Patients and methods: Mothers were prospectively recruited during mid-pregnancy in Bulacan, Philippines where multiple pesticides including propoxur, cyfluthrin, chlorpyrifos, cypermethrin, pretilachlor, bioallethrin, malathion, diazinon and transfluthrin are used. To detect prenatal exposure to these pesticides, maternal hair and blood, infant's hair, cord blood, and meconium were analyzed for the pesticides by gas chromatography/mass spectrometry. Infants were examined at 2 years of age with 95.1% follow up rate and their neurodevelopment outcome was assessed by the Griffiths mental developmental scale (N = 754). Results: Meconium analysis was the most sensitive method to detect fetal exposure to pesticides and exposure was highest for propoxur (21.3%) and the grouped pyrethroids (2.5% - bioallethrin, transfluthrin, cyfluthrin and cypermethrin). Path analysis modeling was performed to determine the effects of fetal exposure to propoxur and pyrethroids on the child's neurodevelopment at 24 months of age while controlling for confounders. Only singletons and those with complete data for the path analysis were included (N = 696). Using a path analysis model, there was a significant negative (beta = -0.14, p < 0.001) relationship between prenatal pesticide exposure to propoxur and motor development at 2 years of age after controlling for confounders, e.g., infant gender, socioeconomic status, maternal intelligence, home stimulation (HOME), postnatal exposure to propoxur and blood lead level at 2 years of age. Conclusion: At 2 years of age, prenatal exposure to propoxur was associated with poorer motor development in children. (C) 2011 Elsevier Inc. All rights reserved.  
Number of Volumes: 4  
ISI Document Delivery No.: 990FU <Go to ISI>://CCC:000307617200008

498. Ostrea Jr, Enrique M.; Reyes, Alexis; Villanueva-Uy, Esterlita; Pacifico, Rochelle; Benitez, Bernadette; Ramos, Essie; Bernardo, Rommel C.; Bielawski, Dawn M.; Delaney-Black, Virginia; Chiodo, Lisa; Janisse, James J., and Ager, Joel W. Fetal exposure to propoxur and abnormal child neurodevelopment at 2 years of age: Neurotoxicity and Neurodegeneration: Local Effect and Global Impact. 2012 Aug; 33, (4): 669-675.   
Rec #: 2180  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Objective Propoxur/ Pesticides/ Pyrethroids/ Prenatal and postnatal pesticide exposure/ Child neurodevelopment/ Griffiths test/ Motor development http://www.sciencedirect.com/science/article/pii/S0161813X11002063

499. Pahwa, Manisha; Harris, Shelley a; Hohenadel, Karin; Mclaughlin, John R; Spinelli, John J; Pahwa, Punam; Dosman, James a, and Blair, Aaron. Pesticide Use, Immunologic Conditions, and Risk of Non-Hodgkin Lymphoma in Canadian Men in Six Provinces. 2012 Dec 1; 131, (11): 2650-2659.   
Rec #: 5540  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pesticide exposures and immune suppression have been independently associated with the risk of non-Hodgkin lymphoma (NHL), but their joint effect has not been well explored. Data from a case-control study of men from six Canadian provinces were used to evaluate the potential effect modification of asthma, allergies, or asthma and allergies and hay fever combined on NHL risk from use of: (i) any pesticide; (ii) any organochlorine insecticide; (iii) any organophosphate insecticide; (iv) any phenoxy herbicide; (v) selected individual pesticides [1,1'-(2,2,2-trichloroethylidene)bis[4-chlorobenzene]; 1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane (DDT), malathion, (4-chloro-2-methylphenoxy)acetic acid (MCPA), mecoprop, and (2,4-dichlorophenoxy)acetic acid (2,4-D); and (vi) from the number of potentially carcinogenic pesticides. Incident NHL cases (n = 513) diagnosed between 1991 and 1994 were recruited from provincial cancer registries and hospitalization records and compared to 1,506 controls. A stratified analysis was conducted to calculate odds ratios (ORs) adjusted for age, province, proxy respondent, and diesel oil exposure. Subjects with asthma, allergies, or hay fever had non-significantly elevated risks of NHL associated with use of MCPA (OR = 2.67, 95% confidence interval [CI]: 0.90-7.93) compared to subjects without any of these conditions (OR = 0.81, 95% CI: 0.39-1.70). Conversely, those with asthma, allergies, or hay fever who reported use of malathion had lower risks of NHL (OR = 1.25, 95% CI: 0.69-2.26) versus subjects with none of these conditions (OR = 2.44, 95% CI: 1.65-3.61). Similar effects were observed for asthma and allergies evaluated individually. Although there were some leads regarding effect modification by these immunologic conditions on the association between pesticide use and NHL, small numbers, measurement error and possible recall bias limit interpretation of these results. Copyright Â© 2012 UICC.  
Keywords: Odds Ratio  
Keywords: Gasoline  
Keywords: Humans  
Keywords: Lymphoma, Non-Hodgkin -- immunology  
Keywords: Risk Assessment  
Keywords: Hypersensitivity -- complications  
Keywords: Insecticides  
Keywords: Herbicides -- poisoning  
Keywords: Gasoline -- poisoning  
Keywords: Environmental Exposure -- adverse effects  
Keywords: Male  
Keywords: Pesticides -- poisoning  
Keywords: Index Medicus  
Keywords: Herbicides  
Keywords: Lymphoma, Non-Hodgkin -- chemically induced  
Keywords: Rhinitis, Allergic, Seasonal -- complications  
Keywords: Asthma -- complications  
Keywords: Hypersensitivity -- immunology  
Keywords: Insecticides -- poisoning  
Keywords: Rhinitis, Allergic, Seasonal -- immunology  
Keywords: 0  
Keywords: Canada  
Keywords: Risk Factors  
Keywords: Pesticides  
Keywords: Case-Control Studies  
Keywords: Occupational Exposure -- adverse effects  
Keywords: Incidence  
Keywords: Middle Aged  
Keywords: Asthma -- immunology eng. Date completed - 2013-03-08. Date created - 2012-09-26. Date revised - 2013-03-11. Last updated - 2013-03-11. DOI - MEDL-22396152; 22396152; 1097-0215

500. Pan, X.; Du, H.; Yan, H., and Shao, H. [Research the Role of Gulonic Acid Lactone in the Five Kinds of Organic Phosphorus Pesticide Detection].   
Rec #: 9640  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: OBJECTIVE: To evaluate the protective effect of gulonic acid lactone in the gas chromatography-mass spectrometry system for detecting phorate, diazinon, dimethoate, methyl parathion, malathion five kinds of organic phosphorus pesticide.  
ABSTRACT: METHODS: By comparing the peak area changes of organic phosphorus pesticide configured with different concentrations (0, 0.3, 0.6, 0.9 and 1.2 mg/ml) of the gulonic acid lactone-methanol solution, and the concentrations (500 ng/ml) of organic phosphorus pesticide are same, to determine the best dosage of gulonic acid lactone. In the concentration, evaluate the protective effect of gulonic acid lactone on five kinds of organic phosphorus pesticide testing.  
ABSTRACT: RESULTS: When the concentration of gulonic acid lactone-methanol solution < 1 mg/ml, the selected ion peak area of the five kinds organophosphorus pesticides detected by gas chromatography-mass spectrometry in the same conditions increases with the upward trend of its concentration ; when the concentration is equal to 1 mg/ml, the peak area reached the highest level, and then with the concentrations increased, no significant change in it. Diazinon's sensitivity increased by 4 times, phorate's sensitivity increased by 5 times, dimethoate, methyl parathion and malathion's sensitivity increased by 10 times, and the peak shape improved distinctly, tailing phenomenon disappears.  
ABSTRACT: CONCLUSION: Gulonic acid lactone can effectively improve the five kinds of organic phosphorus pesticide's sensitivity, improving the peak-type tailing and asymmetric phenomenon by the result of the active site. Quantitative bias can be effectively corrected caused by matrix effects. When the concentration is 1 mg/ml, it has the best effect of the compensation effect.  
MESH HEADINGS: Gas Chromatography-Mass Spectrometry/methods  
MESH HEADINGS: Gluconates/\*diagnostic use  
MESH HEADINGS: Lactones/\*diagnostic use  
MESH HEADINGS: Malathion/analysis  
MESH HEADINGS: Methyl Parathion/analysis  
MESH HEADINGS: Organophosphorus Compounds/\*analysis  
MESH HEADINGS: Pesticide Residues/\*analysis  
MESH HEADINGS: Phorate/analysis chi

501. Panuwet, Parinya; Prapamontol, Tippawan; Chantara, Somporn; Barr, Dana B, and Panuwet, Parinya. Urinary Pesticide Metabolites in School Students From Northern Thailand. 2009 May; 212, (3): 288-297.   
Rec #: 4950  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: We evaluated exposure to pesticides among secondary school students aged 12-13 years old in Chiang Mai Province, Thailand. Pesticide-specific urinary metabolites were used as biomarkers of exposure for a variety of pesticides, including organophosphorus insecticides, synthetic pyrethroid insecticides and selected herbicides. We employed a simple solid-phase extraction with analysis using isotope dilution high-performance liquid chromatography tandem mass spectrometry (HPLC-MS/MS). A total of 207 urine samples from Thai students were analyzed for 18 specific pesticide metabolites. We found 14 metabolites in the urine samples tested; seven of them were detected with a frequency17%. The most frequently detected metabolites were 2-[(dimethoxyphosphorothioyl) sulfanyl] succinic acid (malathion dicarboxylic acid), para-nitrophenol (PNP), 3,5,6-trichloro-2-pyridinol (TPCY; metabolite of chlorpyrifos), 2,4-dichlorophenoxyacetic acid (2,4-D), cis- and trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane-1-carboxylic acids (c-DCCA and t-DCCA; metabolite of permethrin) and 3-phenoxybenzoic acid (3-PBA; metabolite of pyrethroids). The students were classified into 4 groups according to their parental occupations: farmers (N=60), merchants and traders (N=39), government and company employees (N=52), and laborers (N=56). Children of farmers had significantly higher urinary concentrations of pyrethroid insecticide metabolites than did other children (p<0.05). Similarly, children of agricultural families had significantly higher pyrethroid metabolite concentrations. Males had significantly higher values of PNP (Mann-Whitney test, p=0.009); however, no other sex-related differences were observed. Because parental occupation and agricultural activities seemed to have little influence on pesticide levels, dietary sources were the likely contributors to the metabolite levels observed.  
Keywords: High-performance liquid chromatography  
Keywords: 2,4-D  
Keywords: Toxicology Abstracts; Pollution Abstracts; Health & Safety Science Abstracts  
Keywords: Isotopes  
Keywords: Thailand  
Keywords: permethrin  
Keywords: Mass spectrometry  
Keywords: Metabolites  
Keywords: Sex differences  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Mass spectroscopy  
Keywords: Malathion  
Keywords: Insecticides  
Keywords: schools  
Keywords: H 5000:Pesticides  
Keywords: 2,4-Dichlorophenoxyacetic acid  
Keywords: Pyrethroids  
Keywords: X 24330:Agrochemicals  
Keywords: Diets  
Keywords: Bioindicators  
Keywords: Organophosphorus compounds  
Keywords: Permethrin  
Keywords: Herbicides  
Keywords: Children  
Keywords: biomarkers  
Keywords: Chlorpyrifos  
Keywords: Schools  
Keywords: Urine  
Keywords: Liquid chromatography  
Keywords: Pesticides  
Keywords: Succinic acid English. Date revised - 2009-05-01. Last updated - 2012-03-29. DOI - MD-0009524984; 9200047; 1438-4639. SubjectsTermNotLitGenreText - 2,4-D; High-performance liquid chromatography; Isotopes; Permethrin; Herbicides; Metabolites; Children; Sex differences; biomarkers; Mass spectroscopy; Malathion; Chlorpyrifos; Insecticides; Urine; Pesticides; Pyrethroids; Succinic acid; Bioindicators; Diets; Organophosphorus compounds; permethrin; Mass spectrometry; Schools; schools; Liquid chromatography; 2,4-Dichlorophenoxyacetic acid; Thailand

502. Panuwet, Parinya; Prapamontol, Tippawan; Chantara, Somporn; Thavornyuthikarn, Prasak; Montesano, M. Angela; Whitehead, Ralph D., and Barr, Dana B. Concentrations of urinary pesticide metabolites in small-scale farmers in Chiang Mai Province, Thailand. 2008; 407, 655-668.   
Rec #: 11150  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Our research goal was to assess exposure to currently used pesticides among small-scale male farmers residing in two topographically different areas in Chiang Mai Province, Thailand. Farmers (N =136) were recruited from Pong Yaeng subdistrict (N =67) and Inthakhin subdistrict (N =69). Each farmer provided a morning urine void for the analysis of 30 urinary metabolites of insecticides, herbicides, and fungicides. Farmers in Pong Yaeng had significantly higher urinary concentrations of metabolites of organophosphorus insecticides and ethylene bisdithiocarbamates, while farmers from Inthakhin had significantly higher concentrations of malathion, 2,4-D, alachlor, and parathion or EPN metabolites. Based upon the metabolites measured in the urine of the farmers, chlorpyrifos and pyrethroid insecticides seemed to be commonly used across both communities; no significant differences in metabolite concentrations of these insecticides were observed between the two farmer groups. The presence of methamidaphos in the urine of farmers suggests that, despite a ban on its use, methamidaphos continues to be used in the communities. A similar finding with metabolites of methyl parathion must be further investigated. Overall, our results suggest that while each community may use different pesticides, Thai farmers are exposed to a wide variety of pesticides with a broad range in exposure magnitude. Furthermore, age, field size, crop production type, and the use of protective equipment were found to be potential factors influencing the degree of exposure.  
Keywords: Internet resource  
Number of Volumes: 1  
[Amsterdam; New York]: Elsevier Science http://dx.doi.org/10.1016/j.scitotenv.2008.08.044

503. Papoutsis, Ioannis; Mendonis, Marcela; Nikolaou, Panagiota; Athanaselis, Sotirios; Pistos, Constantinos; Maravelias, Constantinos, and Spiliopoulou, Chara. Development and Validation of a Simple Gc-Ms Method for the Simultaneous Determination of 11 Anticholinesterase Pesticides in Blood--Clinical and Forensic Toxicology Applications. 2012 May; 57, (3): 806-812.   
Rec #: 5800  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Anticholinesterase pesticides are widely used, and as a result they are involved in numerous acute and even fatal poisonings. The aim of this study was the development, optimization, and validation of a simple, rapid, specific, and sensitive gas chromatography-mass spectrometry method for the determination of 11 anticholinesterase pesticides (aldicarb, azinphos methyl, carbofuran, chlorpyrifos, dialifos, diazinon, malathion, methamidophos, methidathion, methomyl, and terbufos) in blood. Only 500 Î¼L of blood was used, and the recoveries after liquid-liquid extraction (toluene/chloroform, 4:1, v/v) were more than 65.6%. The calibration curves were linear (R(2) â‰¥ 0.996). Limit of detections and limit of quantifications were found to be between 1.00-10.0 and 3.00-30.0 Î¼g/L, respectively. Accuracy expressed as the %E(r) was found to be between -11.0 and 7.8%. Precision expressed as the percent relative standard deviation was found to be <9.4%. The developed method can be applied for the investigation of both forensic and clinical cases of accidental or suicidal poisoning with these pesticides. Â© 2011 American Academy of Forensic Sciences.  
Keywords: Gas Chromatography-Mass Spectrometry -- methods  
Keywords: Humans  
Keywords: Index Medicus  
Keywords: Solvents  
Keywords: Cholinesterase Inhibitors -- blood  
Keywords: Forensic Toxicology -- methods  
Keywords: Child, Preschool  
Keywords: Cholinesterase Inhibitors  
Keywords: 0  
Keywords: Pesticides  
Keywords: Adult  
Keywords: Middle Aged  
Keywords: Limit of Detection  
Keywords: Male  
Keywords: Pesticides -- blood eng. Date completed - 2012-08-13. Date created - 2012-04-20. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-22221006; 22221006; 1556-4029

504. Pareja, L.; Colazzo, M.; Perez-Parada, A.; Besil, N.; Heinzen, H.; Bocking, B.; Cesio, V., and Fernandez-Alba, A. R. Occurrence and Distribution Study of Residues from Pesticides Applied under Controlled Conditions in the Field during Rice Processing. 2012; 60, 4440-4448.   
Rec #: 15240  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The results of an experiment to study the occurrence and distribution of pesticide residues during rice cropping and processing are reported. Four herbicides, nine fungicides, and two insecticides (azoxystrobin, byspiribac-sodium, carbendazim, clomazone, difenoconazole, epoxiconazole, isoprothiolane, kresoxim-methyl, propanil, quinclorac, tebuconazole, thiamethoxam, tricyclazole, trifloxystrobin, lambda-cyhalotrin) were applied to an isolated rice-crop plot under controlled conditions, during the 2009-2010 cropping season in Uruguay. Paddy rice was harvested and industrially processed to brown rice, white rice, and rice bran, which were analyzed for pesticide residues using the original QuEChERS methodology and its citrate variation by LC-MS/MS and GC-MS. The distribution of pesticide residues was uneven among the different matrices. Ten different pesticide residues were found in paddy rice, seven in brown rice, and eight in rice bran. The highest concentrations were detected in paddy rice. These results provide information regarding the fate of pesticides in the rice food chain and its safety for consumers.  
Number of Volumes: 18  
ISI Document Delivery No.: 937XB <Go to ISI>://CCC:000303696000004

505. Park, M-J; In, S-W; Lee, S-K; Choi, W-K; Park, Y-S; Chung, H-S, and Park, M-J. Postmortem Blood Concentrations of Organophosphorus Pesticides. 2009 Jan 30; 184, (1-3): 28-31.   
Rec #: 5200  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Cases involving acute fatalities due to ingestion of organophosphorus pestiddes (OPs), such as chlorpyrifos, diazinon, malathion and parathion, are presented. Solid-phase extraction (SPE) and gas chromatography/mass spectrometry (GC/MS) were used for the analysis of OPs in postmortem blood. After extraction with an Oasis HLB cartridge, the eluent was evaporated to dryness under a nitrogen stream at 35 degree C, reconstituted with ethanol, and then analyzed by GC/MS. Terbufos was used as an internal standard. Verification procedures, such as the limit of detection, limit of quantification, linearity of the calibration, precision and recovery were performed. Validation data were adequate for analyzing OPs in blood. Chlorpyrifos, diazinon, malathion and parathion were detected in 31 postmortem blood samples. Parathion was the most frequently detected compound among the four pesticides. The mean concentrations of chlorpyrifos, diazinon, malathion and parathion were 0.72, 1.03, 0.82 and 2.90 mg/L, respectively.  
Keywords: Pesticides (organophosphorus)  
Keywords: Data processing  
Keywords: Streams  
Keywords: Mass spectroscopy  
Keywords: Malathion  
Keywords: Chlorpyrifos  
Keywords: Gas chromatography  
Keywords: Toxicology Abstracts  
Keywords: Diazinon  
Keywords: X 24330:Agrochemicals  
Keywords: Ethanol  
Keywords: Nitrogen  
Keywords: Parathion English. Date revised - 2009-03-01. Last updated - 2011-12-14. DOI - MD-0009355476; 9054942; 0379-0738. SubjectsTermNotLitGenreText - Parathion; Chlorpyrifos; Malathion; Diazinon; Mass spectroscopy; Nitrogen; Data processing; Ethanol; Streams; Gas chromatography; Pesticides (organophosphorus)

506. Park, Y.; Im, A. R.; Hong, Y. N.; Kim, C. K., and Kim, Y. S. Detection of Malathion, Fenthion and Methidathion by Using Heparin-Reduced Gold Nanoparticles.   
Rec #: 8860  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: Green-synthesized gold nanoparticles were utilized for the detection of organophosphorous pesticides. Heparin, one of glycosaminoglycans, was used as a reducing and stabilizing agent. The reaction conditions were optimized, and high resolution-transmission electron microscopic images revealed gold nanoparticles of various shapes. Organophosphorous pesticides in water were detected by simply mixing them with gold nanoparticles. NaCl induced a color change in the mixed solution from wine-red to purple-blue that was dependent on the pesticide concentration in the range of 10-1,000 ppb. Gold nanoparticles were immobilized on a silica gel matrix in order to prepare solid supports for removing pesticides. The incorporation of atomic gold and heparin bound to 2 g of silica gel was determined 4,058 ppm and 33 microg as measured by inductively coupled plasma-atomic emission spectrophotometry and carbazole assay, respectively. AuNPs-immobilized silica gel columns were successfully applied for removing fenthion in water confirmed by RP-HPLC and FT-IR analyses.  
MESH HEADINGS: Chromatography, High Pressure Liquid  
MESH HEADINGS: Fenthion/\*analysis  
MESH HEADINGS: Gold/\*chemistry  
MESH HEADINGS: Heparin/\*chemistry  
MESH HEADINGS: Malathion/\*analysis  
MESH HEADINGS: \*Metal Nanoparticles  
MESH HEADINGS: Microscopy, Electron, Transmission  
MESH HEADINGS: Organothiophosphorus Compounds/\*analysis  
MESH HEADINGS: Pesticides/\*analysis/isolation &amp  
MESH HEADINGS: purification  
MESH HEADINGS: Water Pollutants, Chemical/\*analysis/isolation &amp  
MESH HEADINGS: purification eng

507. Parrish, P. R.; Dyar, E. E.; Lindberg, M. A.; Shanika, C. M., and Enos, J. M. Chronic Toxicity of Methoxychlor, Malathion, and Carbofuran to Sheepshead Minnows (Cyprinodon variegatus). 1977: 36 p.   
Rec #: 1030  
Keywords: PUBL AS  
Call Number: NO PUBL AS (CBF,MLN)  
Notes: Chemical of Concern: CBF,MLN,MXC

508. Patee, R. K. 1965 Report on the Low Volume Application of Malathion. 3472//: 1965.  
Rec #: 830  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

509. Pauli, B. D. and Money, S. Ecotoxicology of Pesticides in Reptiles. 2000: 269-324.   
Rec #: 1610  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (24D,24DXY,AZ,AlP,BDF,BML,CBNDS,CLC,CPC,CYP,CaCN,DCF,DM,DPC,DZ,ES,FNV,KNO3,MB,MLN,MOM,MP,MgP,NAPH,NaCN,NaNO3,PAHs,PLL,PMR,PPCP,RTN,SFF,SFR,SMT,STCH,TBC,TCF,WFN,ZnP), NO REVIEW (24D,24DXY,AZ,AlP,BDF,BML,CBNDS,CLC,CPC,CYP,CaCN,DCF,DM,DPC,DZ,ES,FNV,KNO3,MB,MLN,MOM,MP,MgP,NAPH,NaCN,NaNO3,PAHs,PLL,PMR,PPCP,RTN,SFF,SFR,SMT,STCH,TBC,TCF,WFN,ZnP)  
Notes: Chemical of Concern: 24D,24DXY,AND,AZ,AlP,BDF,BML,CBNDS,CHD,CLC,CPC,CYP,CaCN,DCF,DDE,DDT,DLD,DM,DPC,DZ,EN,EPRN,ES,FML,FNV,HCCH,HPT,KNO3,MB,MBZ,MLN,MOM,MP,MRX,MgP,NAPH,NaCN,NaFA,NaNO3,PLL,PMR,PPCP,PPHD,PRN,RTN,SFF,SFR,SMT,STCH,TBA,TBC,TCF,TXP,WFN,ZnP

510. Pauli, B. D.; Perrault, J. A., and Money, S. L. RATL: A Database of Reptile and Amphibian Toxicology Literature. 2000: 494 p.   
Rec #: 1270  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (1Major ions,24D,24DXY,ACL,ACP,ADC,ANT,ATN,ATZ,AZ,Ag,AgN,As,BDF,BRA,BTY,CBD,CBF,CBL,CMPH,CN,CPY,CTN,CYF,CYH,CYP,CaCl2,Conazoles,Cr,Cr element,Cu,CuS,DCTP,DDVP,DFZ,DM,DMB,DMT,DS,DU,DZ,EFV,EP,ES,ETHN,FMP,FNT,FNV,FPP,GYP,Halides,IMC,IODN,LNR,MCB,MDT,MLN,MLO,MLT,MLX,MOM,MP,MTL,MTPN,MVP,MYC,MZB,Maneb,NAPH,NCTN,NH3,NHN,NNCT,NaBr,NaNO3,Naled,OML,OMT,PAHs,PAQT,PCP,PHE,PPB,PPCP,PPN,PPX,PQT,PRT,PSM,PTP,PYPG,PYR,RTN,SAC,SCA,SFL,SFT,SMT,SRT,STCH,TBC,TBO,THM,TMP,TMT,TPR,VCZ,WFN,ZnS), NO REVIEW (1Major ions,24D,24DXY,ACL,ACP,ADC,ANT,ATN,ATZ,AZ,Ag,AgN,As,BDF,BRA,BTY,CBD,CBF,CBL,CMPH,CN,CPY,CTN,CYF,CYH,CYP,CaCl2,Conazoles,Cr,Cr element,Cu,CuS,DCTP,DDVP,DFZ,DM,DMB,DMT,DS,DU,DZ,EFV,EP,ES,ETHN,FMP,FNT,FNV,FPP,GYP,Halides,IMC,IODN,LNR,MCB,MDT,MLN,MLO,MLT,MLX,MOM,MP,MTL,MTPN,MVP,MYC,MZB,Maneb,NAPH,NCTN,NH3,NHN,NNCT,NaBr,NaNO3,Naled,OML,OMT,PAHs,PAQT,PCP,PHE,PPB,PPCP,PPN,PPX,PQT,PRT,PSM,PTP,PYPG,PYR,RTN,SAC,SCA,SFL,SFT,SMT,SRT,STCH,TBC,TBO,THM,TMP,TMT,TPR,VCZ,WFN,ZnS)  
Notes: Chemical of Concern: 1Major ions,24D,24DXY,3CE,ACL,ACP,ACY,ADC,AMTL,AN,AND,ANT,ANZ,ATN,ATP,ATZ,AZ,Ag,AgN,Al,As,BC,BDC,BDF,BNZ,BPZ,BRA,BTY,CBD,CBF,CBL,CF,CHD,CMPH,CN,CPY,CTC,CTN,CYF,CYH,CYP,CZE,CaCl2,CdCl,CdN,CdS,CoCl,Cr,Cu,CuS,DBN,DCTP,DDT,DDVP,DEM,DFZ,DINO,DLD,DLF,DM,DMB,DMT,DS,DU,DXN,DZ,EDB,EDT,EFV,EGY,EN,EP,EPRN,ES,ETHN,ETN,FBM,FMP,FNT,FNV,FPP,FTH,GIB,GYP,HCCH,HPT,Halides,HgCl2,IFP,IMC,IODN,K2Cr2O7,K2CrO4,LNR,MBZ,MCB,MCPA,MDT,MLN,MLO,MLT,MLX,MOM,MP,MRX,MTB,MTL,MTPN,MVP,MXC,MYC,MZB,Maneb,Mg ion,NAPH,NBZ,NCTN,NH3,NHN,NHP,NRM,NaBr,NaNO3,Nabam,Naled,OML,OMT,PAHs,PAQT,PCH,PCL,PCP,PHE,PHSL,PL,PPB,PPCP,PPCP2011,PPHD,PPN,PPX,PQT,PRN,PRT,PSM,PTP,PVL,PYN,PYPG,PYR,Pa,PbAC,PbN,REM,RTN,SA,SAC,SBA,SCA,SFL,SFT,SMT,SRT,STCH,TBA,TBC,TBO,TBT,TCDD,TEG,THM,TMP,TMT,TOL,TPM,TPR,TXP,Tc,Ti,Urea,VCZ,WFN,Zineb,ZnS

511. Pawar, D. B.; Kale, P. N.; Ajri, D. S., and Lawande, K. E. Chemical Control of Fruit Borer of Okra. SOIL; 1988; 13, (1): 115-117.   
Rec #: 270  
Keywords: MIXTURE  
Call Number: NO MIXTURE (CBL,CYP,DM,DMT,ES,FNV,MLN,PMR,SFR)  
Notes: Chemical of Concern: CBL,CYP,DM,DMT,ES,FNV,MLN,PMR,SFR

512. Phillips, B. M.; Anderson, B. S.; Hunt, J. W.; Siegler, K.; Voorhees, J. P.; Tjeerdema, R. S., and McNeill, K. Pyrethroid and Organophosphate Pesticide-Associated Toxicity in Two Coastal Watersheds (California, USA). 2012; 31, (7): 1595-1603.   
Rec #: 1820  
Keywords: MIXTURE,SEDIMENT CONC  
Call Number: NO MIXTURE (BFT,CPY,CYF,CYH,CYP,DCF,DCPA,DDVP,DMT,DZ,EFV,FNV,FPP,FVL,MLN,PMR), NO SEDIMENT CONC (BFT,CPY,CYF,CYH,CYP,DCF,DCPA,DDVP,DMT,DZ,EFV,FNV,FPP,FVL,MLN,PMR)  
Notes: Chemical of Concern: BFT,CPY,CYF,CYH,CYP,DCF,DCPA,DDT,DDVP,DLD,DMT,DZ,EFV,FNV,FPP,FVL,MLN,PMR,TXP

513. Pichetsurnthorn, Pie; Vattipalli, Krishna, and Prasad, Shalini. Nanoporous impedemetric biosensor for detection of trace atrazine from water samples. 2012 Feb 15-; 32, (1): 155-162.   
Rec #: 2030  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Trace contamination of ground water sources has been a problem ever since the introduction of high-soil-mobility pesticides, one such example is atrazine. In this paper we present a novel nanoporous portable bio-sensing device that can identify trace contamination of atrazine through a label-free assay. We have designed a pesticide sensor comprising of a nanoporous alumina membrane integrated with printed circuit board platform. Nanoporous alumina in the biosensor device generates a high density array of nanoscale confined spaces. By leveraging the size based immobilization of atrazine small molecules we have designed electrochemical impedance spectroscopy based biosensor to detect trace amounts of atrazine. We have calibrated the sensor using phosphate buffered saline and demonstrated trace detection from river and bottled drinking water samples. The limit of detection in all the three cases was in the femtogram/mL (fg/mL) (parts-per-trillion) regime with a dynamic range of detection spanning from 10 fg/mL to 1 ng/mL (0.01 ppt to 1 ppm). The selectivity of the device was tested using a competing pesticide; malathion and selectivity in detection was observed in the fg/mL regime in all the three cases. Trace atrazine detection/ River water/ Drinking water/ Electrochemical impedance spectroscopy/ Nanoporous alumina/ Label-free detection http://www.sciencedirect.com/science/article/pii/S0956566311008189

514. Pillmore, R. E. and South, P. Malathion Application in Montana. 1965: 37.   
Rec #: 280  
Keywords: SURVEY  
Call Number: NO SURVEY (MLN)  
Notes: Chemical of Concern: MLN

515. Pimentel, D. Ecological Effects of Pesticides on Non-Target Species. SOIL; 1971: 220 p.   
Rec #: 1050  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (AMSV,ARM,ATN,AZ,CBF,CBL,CMPH,CPY,DCF,DCTP,DMT,DS,DZ,ES,FNT,MLN,MOM,MP,MVP,NCTN,OXD,PPB,PPX,PRT,RTN,TCF,TEPP,TMP,TVP,ZnCl2), NO REVIEW (AMSV,ARM,ATN,AZ,CBF,CBL,CMPH,CPY,DCF,DCTP,DMT,DS,DZ,ES,FNT,MLN,MOM,MP,MVP,NCTN,OXD,PPB,PPX,PRT,RTN,TCF,TEPP,TMP,TVP,ZnCl2)  
Notes: Chemical of Concern: AMSV,AND,ARM,ATN,AZ,CBF,CBL,CHD,CMPH,CPY,CYT,DCF,DCTP,DDT,DLD,DMT,DS,DZ,EN,EPRN,ES,ETN,FNT,FNTH,HCCH,HPT,MLN,MOM,MP,MRX,MVP,MXC,NCTN,OTQ,OXD,PCB,PHSL,PPB,PPCP,PPHD,PPX,PRN,PRT,PYN,RTN,TCF,TMP,TVP,TXP,ZnCl2

516. Poletika, Nicholas N; Teply, Mark; Dominguez, Lawrence G; Cramer, Steven P; Schocken, Mark J; Habig, Clifford; Kern, Matthew; Ochoa-Acuă±a, Hugo, and Mitchell, Gary C. A Spatially and Temporally Explicit Risk Assessment for Salmon From a Prey Base Exposed to Agricultural Insecticides. 2012 Apr; 8, (2 ): 285.   
Rec #: 5820  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This risk assessment applied a framework for determining probable co-occurrence of juvenile spring Chinook salmon (Oncorhynchus tshawytscha) with agricultural pesticides in the Willamette Basin, Oregon (Teply et al. this issue) to characterize risk to the threatened population. The assessment accounted for spatial and temporal distribution of 6 acetylcholinesterase-inhibiting insecticides in salmonid habitat within the basin and their relative contributions to mixture toxicity estimated from chemical monitoring data. The 6 insecticides were chlorpyrifos, diazinon, malathion, carbaryl, carbofuran, and methomyl. Seasonal distributions of the juvenile salmon prey base across the basin were determined and compared to co-occurrence with the insecticide mixture to determine the probability of prey reduction and reduced production of juvenile fish. Probability of effect on freshwater aquatic invertebrates was based on acute toxicity species sensitivity distributions (normalized to the most potent compound, chlorpyrifos) using a novel approach to apply the toxicological concept of concentration addition to species sensitivity distributions with differing slopes. The chlorpyrifos distribution was then used to determine relative sensitivity among various species tested within the important taxa making up the prey base. A prey base index was devised, incorporating diet composition and prey availability, to evaluate the indirect effects of the insecticide mixture on juvenile salmon production occurring as a result of a reduction in the prey base. Our analysis targeted fish use of backwater and off-channel habitat units, because they generally coincide with agricultural lands in lowlands and represent shallow habitat with limited water exchange. The percentage of agricultural land use within 300 m of critical habitat stream reaches was used to scale chemical measurement data from a site with high agricultural land use across the full extent of the basin to provide estimates of chemical exposure in each reach. Seasonal impacts were evaluated from mean monthly concentrations. Stressor impact on 5 key taxa was evaluated at each time step and for each reach, and the outcome was compared to a conservation threshold assigned to the prey base index. Only 13% of juveniles reared in backwater, off-channel habitat within 300 m of agricultural land. Percent reduction of carrying capacity as a consequence of reduced prey was estimated to be 5% over the entire brood year. This can be considered lost capacity that is probably compensated elsewhere via increased occupancy (emigration to other habitat units within the reach), which is not accounted for in the model. [PUBLICATION ABSTRACT]  
Keywords: Salmon  
Keywords: Risk assessment  
Keywords: Oregon  
Keywords: Habitats  
Keywords: Insecticides  
Keywords: Predation  
Keywords: Toxicity  
Keywords: Environmental Studies English. Copyright - Copyright Blackwell Publishing Ltd. Apr 2012. Last updated - 2012-03-26. DOI - 2618299701; 68187852; 68222; IEAM; INODIEAM0000536948. SubjectsTermNotLitGenreText - Oregon

517. Pollard, G. V. Constraints to IPM Development and a Strategy for Management of Tomato and Cabbage Pests in Trinidad, West Indies. 1991; 37, (1): 59-62.   
Rec #: 290  
Keywords: METHODS  
Call Number: NO METHODS (BMY,CBF,CBL,CTN,Captan,CuOH,DCF,DM,DMT,DQTBr,FNV,GYPI,MLN,MOM,MTM,MZB,PAQT,PMR,PQT)  
Notes: Chemical of Concern: AND,BMY,CBF,CBL,CTN,Captan,CuOH,DCF,DLD,DM,DMT,DQTBr,EPRN,FNV,GYPI,MBZ,MLN,MOM,MTM,MZB,PAQT,PMR,PQT,PRN

518. Prado, Paula S; Souza, Cassia C; Bazzoli, Nilo; Rizzo, Elizete, and Prado, Paula S. Reproductive Disruption in Lambari Astyanax Fasciatus From a Southeastern Brazilian Reservoir. 2011 Oct; 74, (7): 1879-1887.   
Rec #: 6130  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The aim of this study was to assess the health indicators and reproductive endpoints in a wild population of lambari Astyanax fasciatus, a small characid fish widely distributed in South America. A range of biomarkers, from the molecular to population levels, was evaluated in adult fish sampled from five sites from the Furnas Reservoir, Grande River. At the sites that receive untreated agriculture and industrial residues, fish showed reduced body size and delayed gonadal maturation. Fish from the sites located immediately downstream from the municipal wastewater discharges exhibited feminisation, intersex and evidence of contamination by xenoestrogens. Elevated levels of zona radiata proteins were found by Western blot in the livers of male fish from three contaminated sites. Overall, this study provides the first evidence of endocrine disruption in a wild fish population inhabiting the Furnas Reservoir, and suggests water contamination by oestrogenic compounds and agricultural residues with a possible risk to human health and wildlife.  
Keywords: Agriculture  
Keywords: H 6000:Natural Disasters/Civil Defense/Emergency Management  
Keywords: Health & Safety Science Abstracts; Environment Abstracts; Toxicology Abstracts; Pollution Abstracts  
Keywords: Contamination  
Keywords: endocrine disruptors  
Keywords: Endocrine disruptors  
Keywords: intersexes  
Keywords: body size  
Keywords: Astyanax fasciatus  
Keywords: Xenoestrogens  
Keywords: Brazil, Grande R.  
Keywords: Body size  
Keywords: Municipal wastes  
Keywords: Population levels  
Keywords: zona radiata  
Keywords: Reservoirs  
Keywords: Bioindicators  
Keywords: Rivers  
Keywords: Western blotting  
Keywords: Residues  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Environmental Studies--Toxicology And Environmental Safety  
Keywords: Wildlife  
Keywords: X 24360:Metals  
Keywords: biomarkers  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Intersexes  
Keywords: South America  
Keywords: Liver  
Keywords: downstream  
Keywords: Fish  
Keywords: Waste water English. Date revised - 2012-01-01. Last updated - 2012-01-26. DOI - OB-7a01e308-e822-4537-96fdcsamfg201; 15763178; 0147-6513. SubjectsTermNotLitGenreText - Agriculture; Rivers; Western blotting; Contamination; Endocrine disruptors; Wildlife; biomarkers; Xenoestrogens; Intersexes; Body size; Liver; Population levels; zona radiata; Waste water; Bioindicators; Residues; endocrine disruptors; intersexes; downstream; Municipal wastes; body size; Fish; Reservoirs; Astyanax fasciatus; South America; Brazil, Grande R.

519. Printes, Liane Biehl; Fernandes, Marisa Narciso; Espindola, Evaldo Luiz Gaeta, and Printes, Liane Biehl. Laboratory Measurements of Biomarkers and Individual Performances in Chironomus Xanthus to Evaluate Pesticide Contamination of Sediments in a River of Southeastern Brazil. 2011 Mar; 74, (3): 424-430.   
Rec #: 6540  
Keywords: SEDIMENT CONC  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This study aimed at evaluating biomarkers, individual and population responses in the native Chironomus xanthus to assess the toxicity of pesticide-contaminated sediments from the Monjolinho River (Southeast Brazil). We measured cholinesterase (ChE) and glutathione S-transferase activities (GST), as biomarkers and survival, individual growth and adult emergence, as individual performances. There was no response of the ChE activity and a tendency to decreased GST activity in contaminated sites, but this was generally not statistically significant. Therefore, there was no association of the biomarker responses with exposure to sediment containing pesticides. In contrast, ash free dry mass was significantly increased and male emergence was decreased in C. xanthus exposed to the same sediments. In conclusion, the selected biomarkers were not sensitive and specific enough to detect and anticipate effects of pesticide contamination at the levels measured in the study area. Nevertheless, individual performances alterations pointed to potential pollution problems and possible ecological consequences.  
Keywords: Q5 01503:Characteristics, behavior and fate  
Keywords: Contamination  
Keywords: Statistical analysis  
Keywords: Survival  
Keywords: Biomarkers  
Keywords: Glutathione transferase  
Keywords: Cholinesterase  
Keywords: Freshwater  
Keywords: Growth  
Keywords: Ecotoxicology  
Keywords: H 5000:Pesticides  
Keywords: Coenzymes  
Keywords: X 24330:Agrochemicals  
Keywords: Pollution  
Keywords: Bioindicators  
Keywords: Rivers  
Keywords: Sediment pollution  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Environmental Studies--Toxicology And Environmental Safety  
Keywords: Ash  
Keywords: Z 05350:Medical, Veterinary, and Agricultural Entomology  
Keywords: Toxicity  
Keywords: Entomology Abstracts; Health & Safety Science Abstracts; Environment Abstracts; Toxicology Abstracts; Water Resources Abstracts; Aqualine Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; Pollution Abstracts  
Keywords: biomarkers  
Keywords: Sediments  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Chironomus  
Keywords: Pesticides  
Keywords: survival English. Date revised - 2011-10-01. Last updated - 2011-12-13. DOI - OB-7579bf19-d315-46f0-96a7csamfg201; 14514270; CS1147037; 0147-6513. SubjectsTermNotLitGenreText - Rivers; Sediment pollution; Growth; Ecotoxicology; Contamination; Pesticides; Coenzymes; Toxicity; Biomarkers; Statistical analysis; Survival; Glutathione transferase; Cholinesterase; biomarkers; Pollution; Sediments; Bioindicators; Ash; survival; Chironomus; Freshwater

520. Priya, Kulluru Padma and Panda, Rabindra K. Das Bhabani S. Behaviour of Pesticides in Different Soils Through Measurement and Simulation Modelling. 2011.  
Rec #: 8020  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pesticide residues in water bodies are considered as potentially serious environmental problem. Remediation of such problem requires thorough understanding of the behaviour (retention, mobility and persistence) of pesticides in soil by monitoring of site-specific data. Laboratory and field based investigations have been carried out to establish the behavioral parameters of two contrasting and widely used pesticides malathion and atrazine. The laboratory studies involved determination of sorption and leaching parameters of these pesticides in three different agricultural soils: loamy sand (Typic Xerosament), sandy loam (Acid Lateritic Haplustalf) and clay loam (Hyperthermic Typic Haplusterts). Whereas, field investigations comprised of comprehensive field plot and lysimetric studies in sandy loam soils of Kharagpur with malathion being applied to rice crop under saturated conditions and atrazine applied for potato crop under unsaturated conditions. The investigations aimed to study the impact of different application rates of malathion (1.0, 2.0 and 3.0 ml/l of water and control) and atrazine (1.5, 3.0 and 4.5 kg a.i./ha and control) on soil water and distribution and balance of pesticides within the root zone for two consecutive seasons. The results obtained from laboratory and field based investigations were simulated by HYDRUS 1 D model. The results of batch sorption experiments revealed that malathion had higher K d values compared to atrazine for all soils, indicating higher leachability of atrazine than malathion. The miscible displacement experiments revealed that malathion could not leach beyond 15 cm depth whereas atrazine could leach up to 65 cm depth in the test soils under saturated conditions. The field plot experiments revealed that malathion under saturated rice field leached up to 30 cm and maximum concentration of malathion was found in surface ponded water. Under unsaturated conditions atrazine leached up to 65 cm beyond root zone only under highest rate of pesticide application. In lysimetric experiments malathion could not be detected in the drainage water of all the four treatments during the entire experiment. Atrazine leached beyond the root zone after 160 days of application but remained within the permissible limits. HYDRUS 1D model fitted the experimental breakthrough curve (BTC) well with R 2 values ranging from 0.65-0.99 and predicted the time and depth distribution of soil water (R2 0.97-0.99) and pesticides (R2 0.91-0.97) reasonably well.  
Keywords: Soil column  
Keywords: Leaching  
Keywords: Environmental Health  
Keywords: Pesticide residues  
Keywords: Batch sorption  
Keywords: Lysimeter  
Keywords: Malathion  
Keywords: 0470:Environmental Health  
Keywords: Hydrus  
Keywords: Solute transport  
Keywords: Soil sciences  
Keywords: Atrazine  
Keywords: 0481:Soil sciences  
Keywords: Health and environmental sciences  
Keywords: Biological sciences English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2011. Last updated - 2011-12-08. DOI - 2531158621; 66021911; 66569; 0824181. First page - n/a

521. Pundir, Chandra Shekhar and Chauhan, Nidhi. Acetylcholinesterase inhibition-based biosensors for pesticide determination: A review. 2012 Oct 1-; 429, (1): 19-31.   
Rec #: 1530  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Pesticides released intentionally into the environment and through various processes contaminate the environment. Although pesticides are associated with many health hazards, there is a lack of monitoring of these contaminants. Traditional chromatographic methodsÇöhigh-performance liquid chromatography, capillary electrophoresis, and mass spectrometryÇöare effective for the analysis of pesticides in the environment but have certain limitations such as complexity, time-consuming sample preparation, and the requirement of expensive apparatus and trained persons to operate. Over the past decades, acetylcholinesterase (AChE) inhibition-based biosensors have emerged as simple, rapid, and ultra-sensitive tools for pesticide analysis in environmental monitoring, food safety, and quality control. These biosensors have the potential to complement or replace the classical analytical methods by simplifying or eliminating sample preparation and making field-testing easier and faster with significant decrease in cost per analysis. This article reviews the recent developments in AChE inhibition-based biosensors, which include various immobilization methods, different strategies for biosensor construction, the advantages and roles of various matrices used, analytical performance, and application methods for constructing AChE biosensors. These AChE biosensors exhibited detection limits and linearity in the ranges of 1.0+ů10-11 to 42.19 ++M (detection limits) and 1.0 +ů 10ęĆ11Çô1.0 +ů 10ęĆ2 to 74.5Çô9.9 +ů 103 ++M (linearity). These biosensors were stable for a period of 2 to 120 days. The future prospects for the development of better AChE biosensing systems are also discussed. Acetylcholinesterase/ Acetylcholinesterase biosensor/ Pesticides/ Immobilization/ Nanomaterials http://www.sciencedirect.com/science/article/pii/S0003269712003387

522. Pyrzynska, Krystyna and Pyrzynska, Krystyna. Carbon Nanotubes as Sorbents in the Analysis of Pesticides. 2011 Jun; 83, (11): 1407-1413.   
Rec #: 6320  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: With increasing public concerns for agrochemicals and their potential movement in the ecosystem, very sensitive, selective and precise methods for the analysis of pesticides are needed. Because these substances are present usually at trace levels, the extraction and preconcentration steps are so far essential for their detection. Discoveries of novel nanomaterials with unique properties have significant impact on their use also in extraction techniques. This overview reports the recent application of carbon nanotubes in the analysis of pesticides. The largest numbers of reported applications of carbon nanotubes concern their role as a sorbent materials in solid-phase extraction and microextraction techniques.  
Keywords: Sorbents  
Keywords: ENA 09:Land Use & Planning  
Keywords: Pesticides  
Keywords: Environment Abstracts  
Keywords: Public concern  
Keywords: nanotechnology  
Keywords: Environmental Studies English. Date revised - 2011-10-01. Last updated - 2011-12-09. DOI - OB-3f5b5677-63e1-44b2-b6f1csaobj201; 14893556; 0045-6535. SubjectsTermNotLitGenreText - Sorbents; Pesticides; Public concern; nanotechnology

523. qKim, J. K. ; Baik, M. Y.; Hahm, Y. T., and Kim, B. Y. DEVELOPMENT AND OPTIMIZATION OF A DRINK UTILIZING CITRUS (CITRUS UNSHIU) PEEL EXTRACT. 2012; 35, 557-571.   
Rec #: 14130  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: S Citrus (Citrus unshiu) peel extracts were utilized to develop a drink using a mixture design and optimization process. The contents of narirutin and hesperidin in the citrus peel extracts, as determined by high-performance liquid chromatography, were 10.25 and 7.65 mg/g, respectively. Residual pesticides in the citrus peel, such as chlorobenzilate, diethofencarb, malathion, methiocarb and carbaryl, were not detected. Heavy metals, including lead (Pb) and cadmium (Cd), were determined as 16.00 and 6.55 mu g/g prior to washing the citrus peels, and 5.83 and 5.83 mu g/g after washing, respectively. Development of the drink with citrus peel extract was carried out using fructo-oligosaccharide syrup and water. The interaction effects of these ingredients were investigated using a modified distance-based design and analyzed by linear regression models, nonlinear regression models and trace plots. Optimization of the mixture ratio was determined with statistical modeling using 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical scavenging activity, total flavonoid content and taste tests, all of which are important target constraints in a drink. Every constraint demonstrated a nonlinear canonical form. The response trace plot revealed that DPPH radical scavenging activity, total flavonoid content and taste tests were quite sensitive to citrus peel extract content in the drink. The optimal formulation of the drink was set at 1.974% citrus peel extract, 27.543% fructo-oligosaccharide syrup and 70.364% water. PRACTICAL APPLICATIONS Citrus peels extract can be utilized to functional drinks having a narirutin and hesperidin. Mixture design and optimization process enables us to attain the optimal mixture ratio with drink ingredients for the drink. Numerical optimization process can be effectively applied in other food mixture systems.  
Number of Volumes: 4  
ISI Document Delivery No.: 976UL <Go to ISI>://CCC:000306611000004

524. Qu, C. S.; Chen, W.; Bi, J.; Huang, L., and Li, F. Y. Ecological risk assessment of pesticide residues in Taihu Lake wetland, China: Wetlands in China. 2011 Jan 24-; 222, (2): 287-292.   
Rec #: 2170  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: As a major ecosystem type, wetland provides invaluable ecological services. Environmental pollution, especially pesticides pollution should be paid more attention to keep wetlands healthy. Based on the risk quotient method, coupled with a probabilistic risk assessment model, this paper proposed a methodology suitable for ecological risk assessment of pesticide residues for wetland ecosystems. As an important industrializing and ecologically vulnerable area in China, the Taihu Lake wetland was chosen for the case study. The risks of eight pesticides in Taihu Lake wetland were assessed, as single substances and in mixtures. The assessment indicates that risks of the representative species are not significant. In general, the herbicide is found to be more toxic for algae, whereas insecticides pose more risks to zooplankton, insect and fish. For each pesticide in the wetland, the ecological risk it poses is acceptable. But the combined ecological risk posed by mixture can harm more than 10% of species of the wetland ecosystem, mainly dominated by dichlorvos, dimethoate and malathion contributions. These results imply that pesticide residues have been posing pressures on the ecosystem of the Taihu Lake wetland. It is recommended that proper countermeasures should be implemented to reduce the risks. Ecological risk assessment/ Pesticide residues/ Taihu Lake/ Wetland http://www.sciencedirect.com/science/article/pii/S0304380010003698

525. Quirã³S-Alcalã¡, Lesliam; Bradman, Asa; Nishioka, Marcia; Harnly, Martha E; Hubbard, Alan; Mckone, Thomas E; Ferber, Jeannette, and Eskenazi, Brenda. Pesticides in House Dust From Urban and Farmworker Households in California: an Observational Measurement Study. 2011; 10, (1): 19.   
Rec #: 6670  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Abstract Background: Studies report that residential use of pesticides in low-income homes is common because of poor housing conditions and pest infestations; however, exposure data on contemporary-use pesticides in low-income households is limited. We conducted a study in low-income homes from urban and agricultural communities to: characterize and compare house dust levels of agricultural and residential-use pesticides; evaluate the correlation of pesticide concentrations in samples collected several days apart; examine whether concentrations of pesticides phased-out for residential uses, but still used in agriculture (i.e., chlorpyrifos and diazinon) have declined in homes in the agricultural community; and estimate resident children's pesticide exposures via inadvertent dust ingestion. Methods: In 2006, we collected up to two dust samples 5-8 days apart from each of 13 urban homes in Oakland, California and 15 farmworker homes in Salinas, California, an agricultural community (54 samples total). We measured 22 insecticides including organophosphates (chlorpyrifos, diazinon, diazinon-oxon, malathion, methidathion, methyl parathion, phorate, and tetrachlorvinphos) and pyrethroids (allethrin-two isomers, bifenthrin, cypermethrin-four isomers, deltamethrin, esfenvalerate, imiprothrin, permethrin-two isomers, prallethrin, and sumithrin), one phthalate herbicide (chlorthal-dimethyl), one dicarboximide fungicide (iprodione), and one pesticide synergist (piperonyl butoxide). Results: More than half of the households reported applying pesticides indoors. Analytes frequently detected in both locations included chlorpyrifos, diazinon, permethrin, allethrin, cypermethrin, and piperonyl butoxide; no differences in concentrations or loadings were observed between locations for these analytes. Chlorthal-dimethyl was detected solely in farmworker homes, suggesting contamination due to regional agricultural use. Concentrations in samples collected 5-8 days apart in the same home were strongly correlated for the majority of the frequently detected analytes (Spearman Ï = 0.70-1.00, p < 0.01). Additionally, diazinon and chlorpyrifos concentrations in Salinas farmworker homes were 40-80% lower than concentrations reported in samples from Salinas farmworker homes studied between 2000-2002, suggesting a temporal reduction after their residential phase-out. Finally, estimated non-dietary pesticide intake for resident children did not exceed current U.S. Environmental Protection Agency's (U.S. EPA) recommended chronic reference doses (RfDs). Conclusion: Low-income children are potentially exposed to a mixture of pesticides as a result of poorer housing quality. Historical or current pesticide use indoors is likely to contribute to ongoing exposures. Agricultural pesticide use may also contribute to additional exposures to some pesticides in rural areas. Although children's non-dietary intake did not exceed U.S. EPA RfDs for select pesticides, this does not ensure that children are free of any health risks as RfDs have their own limitations, and the children may be exposed indoors via other pathways. The frequent pesticide use reported and high detection of several home-use pesticides in house dust suggests that families would benefit from integrated pest management strategies to control pests and minimize current and future exposures.  
Keywords: Agriculture  
Keywords: Pesticides -- analysis  
Keywords: Housing  
Keywords: Humans  
Keywords: Environmental Exposure -- analysis  
Keywords: Child  
Keywords: Dust  
Keywords: Environmental Studies  
Keywords: Manuscripts  
Keywords: Chlorpyrifos -- analysis  
Keywords: California  
Keywords: Low income groups  
Keywords: Human subjects  
Keywords: Adult  
Keywords: Mexican Americans  
Keywords: Time Factors  
Keywords: Community  
Keywords: Houses  
Keywords: Data collection  
Keywords: Dust -- analysis  
Keywords: Pest control  
Keywords: Environmental Pollutants -- analysis  
Keywords: Diazinon -- analysis  
Keywords: Environmental Pollutants  
Keywords: Chlorpyrifos  
Keywords: Socioeconomic Factors  
Keywords: Households  
Keywords: Pesticides  
Keywords: Diazinon English. Copyright - Â© 2011 QuirÃ³s-AlcalÃ¡ et al; licensee BioMed Central Ltd. This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/2.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. Last updated - 2013-02-24. DOI - 2504416041; 65401881; 58366; ENVH; 21410986; BMDDENVH201101011476069X1019. [1] Bouchard MF, Bellinger DC, Wright RO, Weisskopf MG, Attention-deficit/hyperactivity disorder and urinary metabolites of organophosphate pesticidesIn Pediatrics,2010,125:e1270-1277. [2] Engel SM, Berkowitz GS, Barr DB, Teitelbaum SL, Siskind J, Meisel SJ, Wetmur JG, Wolff MS, Prenatal organophosphate metabolite and organochlorine levels and performance on the Brazelton Neonatal Behavioral Assessment Scale in a multiethnic pregnancy cohortIn Am J Epidemiol,2007,165:1397-1404. 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Rec #: 5580  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Human exposure to preformed dialkylphosphates (DAPs) in food or the environment may affect the reliability of DAP urinary metabolites as biomarkers of organophosphate (OP) pesticide exposure. We conducted a study to investigate the presence of DAPs in indoor residential environments and their association with children's urinary DAP levels. We collected dust samples from homes in farmworker and urban communities (40 homes total, n=79 samples) and up to two urine samples from resident children ages 3-6 years. We measured six DAPs in all samples and eight DAP-devolving OP pesticides in a subset of dust samples (n=54). DAPs were detected in dust with diethylphosphate (DEP) being the most frequently detected ( greater than or equal to 60%); detection frequencies for other DAPs were less than or equal to 50%. DEP dust concentrations did not significantly differ between communities, nor were concentrations significantly correlated with concentrations of chlorpyrifos and diazinon, the most frequently detected diethyl-OP pesticides (Spearman rho =-0.41 to 0.38, P>0.05). Detection of DEP, chlorpyrifos, or diazinon, was not associated with DEP and/or DEP+diethylthiophosphate detection in urine (Kappa coefficients=-0.33 to 0.16). Finally, estimated non-dietary ingestion intake from DEP in dust was found to be less than or equal to 5% of the dose calculated from DEP levels in urine, suggesting that ingestion of dust is not a significant source of DAPs in urine if they are excreted unchanged.  
Keywords: Bioindicators  
Keywords: Age  
Keywords: Organophosphates  
Keywords: Food  
Keywords: Metabolites  
Keywords: organophosphates  
Keywords: Ingestion  
Keywords: Children  
Keywords: biomarkers  
Keywords: Dust  
Keywords: Environmental Studies  
Keywords: Chlorpyrifos  
Keywords: Toxicology Abstracts; Health & Safety Science Abstracts  
Keywords: House dust  
Keywords: Urine  
Keywords: H 5000:Pesticides  
Keywords: Pesticides  
Keywords: X 24330:Agrochemicals  
Keywords: Diazinon English. Date revised - 2013-03-01. Last updated - 2013-03-14. DOI - OB-987b291e-2d0a-4cdf-b11dmfgefd101; 17410885; 1559-0631. SubjectsTermNotLitGenreText - Chlorpyrifos; Age; House dust; Urine; Food; Pesticides; Metabolites; organophosphates; Children; biomarkers; Diazinon; Dust; Bioindicators; Organophosphates; Ingestion

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Rec #: 310  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Objectives Malathion/ Insulin resistance/ Glucose/ Farmers http://www.sciencedirect.com/science/article/pii/S0009912012004511

528. Radisic, M.; Grujic, S.; Vasiljevic, T., and Lausevic, M. Determination of selected pesticides in fruit juices by matrix solid-phase dispersion and liquid chromatography-tandem mass spectrometry. 2009; 113, 712-719.   
Rec #: 15430  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A rapid and sensitive liquid chromatography-tandem mass spectrometry method has been developed for the analysis of acephate, monocrotophos, carbendazim, acetamiprid, dimethoate, simazine, carbofuran, atrazine, diuron, DNOC (4,6-dinitro-o-cresol), malathion and tebufenozide in fruit juices. Extracts were obtained by matrix solid-phase dispersion using diatomaceous earth as dispersant and dichloromethane as eluent. Significant matrix effects observed for most of the pesticides tested were eliminated using matrix-matched standards. The quantification of the analytes was carried out using the most sensitive transition. The confirmation of residues detected in real samples was performed by repeated injection and acquiring additional transitions to that used for quantification. Recoveries were in the range 71-118%. Repeatability of the method, expressed as the relative standard deviation, was in general between 5-15%. Low limits of detection (0.01-0.94 ng ml(-1)) and quantification (0.03-3.12 ng ml(-1)) were readily achieved with this method for all tested pesticides. (c) 2008 Elsevier Ltd. All rights reserved.  
Number of Volumes: 2  
ISI Document Delivery No.: 375AJ <Go to ISI>://CCC:000261084600054

529. Radisic, M. M.; Vasiljevic, T. M.; Dujakovic, N. N., and Lausevic, M. D. Application of Matrix Solid-Phase Dispersion and Liquid Chromatography-Ion Trap Mass Spectrometry for the Analysis of Pesticide Residues in Fruits. 2013; 6, 648-657.   
Rec #: 15440  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This study presents an application of rapid and sensitive multiresidue method for the analysis of acephate, acetamipride, atrazine, carbendazim, carbaryl, carbofuran, dimethoate, imidacloprid, linuron, malathion, monocrotophos, monuron, propazine, simazine, and tebufenozide in fruits. The method involves an extraction procedure based on matrix solid-phase dispersion using diatomaceous earth as a dispersant and dichloromethane as the eluent. The target pesticides were determined using liquid chromatography-ion trap mass spectrometry. Quantification of the analytes was carried out using the most sensitive ion transition. Ion trap parameters, like activation q and time, were found to have a prominent influence on method sensitivity for some pesticides and they were optimized accordingly. The confirmation of residues detected in real samples was performed by repeated injection and acquiring additional ion transitions besides the ones used for quantification. The method was validated for accuracy, linearity, reproducibility, and sensitivity. Mean values for recoveries were in the range of 70-120 % for all tested matrices. Repeatability of the method, expressed as the relative standard deviation, was in general lower than 20 %. The applicability of the method to routine analysis was tested in real fruit samples with good performance.  
Number of Volumes: 2  
ISI Document Delivery No.: 108KJ <Go to ISI>://CCC:000316291500033

530. Raghavendra, K.; Barik, T. K., and Adak, T. Development of larval thermotolerance and its impact on adult susceptibility to malathion insecticide and Plasmodium vivax infection in Anopheles stephensi. 2010; 107, 1291-1297.   
Rec #: 15460  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The effect of the range of temperature on the thermal adaptation in Anopheles stephensi Liston 1901 was evaluated in the laboratory. Late third instar larvae of An. stephensi were exposed to variable temperatures viz. 37A degrees C, 39A degrees C, 41A degrees C, 43A degrees C and 45A degrees C, and their lethal time to cause 50% mortality (LTM(50)) values were calculated. All larvae survived up to 39A degrees C of exposure. However, at 45A degrees C, they died within 30 min of exposure. Pre-exposure to variable temperatures and re-exposure to higher temperatures conferred adaptive thermotolerance. The larvae pre-adapted at 41A degrees C that were re-exposed to 43A degrees C, and larvae pre-adapted at 39A degrees C that were re-exposed to 45A degrees C, were found more thermotolerant than the thermally non-adapted larvae. Adaptive cross-tolerance to malathion was also induced by pre-exposing them to 37A degrees C and 39A degrees C. It suggests that temperature stress also play an important role in the development of adaptive cross-tolerance to other stress conditions. Similarly, the oocyst rate was relatively more in adults that emerged from larvae pre-adapted at 40A degrees C as compared to adults that emerged from thermally non-adapted larvae and with lower oocyst load.  
Number of Volumes: 6  
ISI Document Delivery No.: 678KL <Go to ISI>://CCC:000284072400002

531. Raghavendra, K.; Cornel, A. J.; Reddy, B. P. N.; Collins, F. H.; Nanda, N.; Chandra, D.; Verma, V.; Dash, A. P., and Subbarao, S. K. Multiplex PCR assay and phylogenetic analysis of sequences derived from D2 domain of 28S rDNA distinguished members of the Anopheles culicifacies complex into two groups, A/D and B/C/E. 2009; 9, 271-277.   
Rec #: 15470  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A multiplex PCR assay was developed using the sequences of the D2 region of 28S ribosomal DNA (rDNA) to discriminate the five members of the Anopheles culicifacies complex provisionally designated as species A, B, C, D and E. Two minus strand primers derived from sequence differences in the D2 variable region and a universal plus strand primer derived from the conserved 28S (rDNA) has delimited five members into species A and D (group 1) and species B, C and E (group 2) in a PCR diagnostic assay. The complete 28S rDNA-D2 region sequence of A. culicifacies sibling species is reported for the first time. Inter-specific sequence divergence was greater than the intra-specific divergence. The phylogenetic relationships inferred from maximum likelihood, maximum parsimony and the neighbor joining analysis confirmed the presence of two unambiguous monophyly clades one consisting of species A and D and the other of species B, C and E and that the A. culicifacies sibling species diverged relatively recently in evolutionary terms despite their considerable differences in bionomics. (C) 2008 Elsevier B.V. All rights reserved.  
Number of Volumes: 2  
ISI Document Delivery No.: 417BL <Go to ISI>://CCC:000264049400016

532. Raina, R.; Hall, P., and Sun, L. N. Occurrence and Relationship of Organophosphorus Insecticides and Their Degradation Products in the Atmosphere in Western Canada Agricultural Regions. 2010; 44, 8541-8546.   
Rec #: 15490  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This paper presents the atmospheric occurrence and seasonal variations of the most frequently detected organophosphorus insecticides (OPs) and their OP oxon degradation products at Brats Lake, Saskatchewan in the Canadian Prairies (April 2003 to March 2004, January-December, 2005) and at Abbotsford in the Lower Frazer Valley (LFV) of British Columbia from May 2004 to December, 2005. During 2005 there were 10 OPs, 8 OP oxons, and 6 other OP degradation products measured. The most frequently detected OPs were chlorpyrifos, malathion, and diazinon. At Bratt's Lake the highest atmospheric concentrations were observed for chlorpyrifos, with maximum concentrations observed during July and August in 2003 showing much higher concentrations than those from 2005. This was related to its usage for grasshopper control in the province. At Abbotsford, diazinon and malathion were observed in much higher atmospheric concentrations than chlorpyrifos. Concentrations reached maximum in spring for diazinon and summer for malathion. This study is the first reported study of seasonal variations of OP oxons with their parent OP. Chlorpyrifos axon concentrations during July were generally low, indicating strong local source contributions. The chlorpyrifos oxon/chlorpyrifos ratio and diazinon oxon/diazinon ratio showed a strong seasonal variation with increasing ratio from spring to summer which was attributed to increasing sunlight hours. Malathion oxon/mathion at both sites was similar and relatively constant throughout the year. The oxon/thion ratio represents a good indicator of age of source or contributions from local versus regional atmospheric sources.  
Number of Volumes: 22  
ISI Document Delivery No.: 680QA <Go to ISI>://CCC:000284248300031

533. Rajdhar and Singh, C. P. Effect of Pesticides on the Yield and Quality of Brinjal. SOIL; 1989; 2, (2): 238-239.   
Rec #: 1060  
Keywords: BENEFICIAL EFFECT  
Call Number: NO BENEFICIAL EFFECT (MLN)  
Notes: Chemical of Concern: AND,EPRN,MLN,PRN

534. Raloff, Janet. Chemicals Linked to Kids' Lower Iqs . 2011 May 21; 179, (11): 15.   
Rec #: 6350  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The researchers screened women for exposure to organophosphate compounds such as chiorpyrifos, diazinon and malathion. These bug killers, which can cross the human placenta, work by inhibiting brain-signaling compounds. Although the pesticides' residential use was phased out in 2000, spraying on farm fields remains legal. All three studies began in the late 1990s and followed children through age 7. In more than 300 low-income Mexican-American families, exposures came mostly from farmwork, researchers from the University of California, Berkeley and their colleagues report. In two comparably sized New York City populations, exposures probably traced to bug spraying of homes or eating treated produce. Among the California families, the average IQ for the 20 percent of children with the highest prenatal organophosphate exposure was seven points lower compared with the least-exposed group.  
Keywords: Intelligence  
Keywords: Sciences: Comprehensive Works  
Keywords: Childrens health  
Keywords: Pesticides  
Keywords: Women  
Keywords: Research  
Keywords: Insects English. Copyright - Copyright Society for Science & the Public May 21, 2011. Last updated - 2012-02-21. CODEN - SCNEBK. DOI - 2358597451; 61735151; 28496; SCNEBK; GSCN; INODGSCN0007215181

535. . Index. Ramesh C. Gupta. Reproductive and Developmental Toxicology. San Diego: Academic Press; 2011: 1167-1202.   
Rec #: 1560  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: ISSN/ISBN: 978-0-12-382032-7 http://www.sciencedirect.com/science/article/pii/B9780123820327100876

536. Ranjbar, Akram; Abdollahi, Mohammad; Ghahremani, Mohammad; Sharifzade, Mohammad; Golestani, Abolfazl; Ghazi-Khansari, Mahmmood, and Ranjbar, Akram. Protection by Pentoxifylline of Malathion-Induced Toxic Stress and Mitochondrial Damage in Rat Brain. 2009 Sep 13.  
Rec #: 4730  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Brain injury  
Keywords: U 2000:Biological Sciences  
Keywords: Mitochondria  
Keywords: Stress English. Date revised - 2009-12-18. Last updated - 2010-05-03. DOI - CPI-5357479; 5357479

537. Ranjbar, Akram; Abdollahi, Mohammad; Ghahremani, Mohammad Hossein; Sharifzade, Mohammad; Golestani, Abolfazl, and Ghazi-khansari, Mahmmood. Protection by pentoxifylline of malathion-induced toxic stress and mitochondrial damage in rat brain: Abstracts of the 46th Congress of the European Societies of Toxicology. 2009 Sep 13-; 189, Supplement, (0): S123.   
Rec #: 520  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: http://www.sciencedirect.com/science/article/pii/S0378427409007516

538. Rao, Mruthyumjaya Meda; Kumarmeena, Ajay; Galib, Galib, and Rao, Mruthyumjaya Meda. Detection of Toxic Heavy Metals and Pesticide Residue in Herbal Plants Which Are Commonly Used in the Herbal Formulations. 2011 Oct; 181, (1-4): 267-271.   
Rec #: 6140  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Herbal formulations are getting popular throughout the world and commercialized extensively for various medicinal properties. WHO has emphasized the need for quality assurance of herbal products, including testing of heavy metals and pesticides residues. In view of WHO guidelines, single herbal drugs used in herbal formulations were collected from local market, for testing heavy metals and persistent pesticides residue. Therefore, in the present case, we have examined few local samples of certain herbs viz. Emblica officinalis, Terminalia chebula, Terminalia belerica, and Withania somnifera. The present studies were selected for estimation of four heavy metals namely Arsenic, Cadmium, Lead, and Mercury. Apart from these, pesticide residue Viz. Organochlorine pesticides, Organophosphorus pesticides, and Pyrethroids were analyzed in the four samples of single crude drugs. Heavy metals and pesticide residue were found below detection limits in all the samples.  
Keywords: Environment Abstracts  
Keywords: Environmental Studies English. Date revised - 2011-09-01. Last updated - 2012-08-02. DOI - OB-9fbe46ba-0ac5-4da7-ab0bmfgefd101; 15610447; 0167-6369; 1573-2959

539. Rastogi, S K; Tripathi, S; Ravishanker, D, and Rastogi, S K. A Study of Neurologic Symptoms on Exposure to Organophosphate Pesticides in the Children of Agricultural Workers. 2010 Aug; 14, (2): 54-57.   
Rec #: 6910  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pesticides are used extensively throughout the world in agriculture and in pest control as well as for community health purposes. Organophosphate (OP) pesticide self-poisoning is an important clinical problem in rural regions of the developing world that kills an estimated 200,000 people every year. Unintentional poisoning kills far fewer people but is an apparent problem in places where highly toxic OP pesticides are available. Neurologic dysfunction is the best documented health effect of pesticide exposure. High-level exposure has both acute and long-term neurologic signs and symptoms, and adverse effects have been reported in most type of pesticides, including organophosphate (OP), carbamate, organochlorine, and pyrethroid insecticides, herbicides, fungicides, and fumigants. Acute OP pesticide exposure can involve in wide range of both central and peripheral neurologic symptoms. Increased neurologic symptom prevalence may provide early evidence of neurologic dysfunctions, before clinically measurable signs are evident. In this study, we analyzed the cross-sectional data on neurologic signs and symptoms from 225 rural children, both males (n = 132) and females (n = 93) who were occupationally and paraoccupationally exposed to methyl OPs (dichlorvos, fenthion, malathion, methyl parathion) and ethyl OPs (chlorpyrifos, diazinon, ethyl parathion) as they belonged to agricultural families handling, mixing, and spraying the OP pesticides. The children completed a specially designed questionnaire (Q16) on neurologic symptoms associated with pesticide exposure with their parental help. A suitable reference group consisting of rural children (n = 50) never involved in pesticide handling (neither outdoor nor indoor) belonging to similar socioeconomic strata included in the study to compare the prevalence of various neurologic symptoms between the two groups. Among all the neurologic self-reported symptoms, headache, watering in eyes, and burning sensation in eye/face were the most important clinical manifestations attributed to OP pesticide exposure. These symptoms could probably be the consequence of chronic effects of most pesticides on the central nervous system. The muscarinic symptoms reported the maximum prevalence of salivation (18.22%), whereas lacrimation was observed in 17.33% cases, followed by diarrhea in 9.33% cases. The nicotinic clinical manifestations of acute OP poisoning revealed excessive sweating in 13.78% cases and tremors in 9.3% cases followed by mydriasis in 8.4% exposed children. The characteristic cholinergic symptoms, such as insomnia, headache, muscle cramps, weakness, and anorexia were also reported by both male and female exposed children. The high frequency of neurologic symptoms observed in the study may be due to parasympathetic hyperactivity due to the accumulated ACh resulting from AChE inhibition.  
Keywords: Agriculture  
Keywords: Central nervous system  
Keywords: Fumigants  
Keywords: Organophosphates  
Keywords: Malathion  
Keywords: Headache  
Keywords: Methyl parathion  
Keywords: tremor  
Keywords: Occupational exposure  
Keywords: Toxicology Abstracts; CSA Neurosciences Abstracts; Health & Safety Science Abstracts  
Keywords: Pesticides (organophosphorus)  
Keywords: Inventories  
Keywords: Diarrhea  
Keywords: N3 11028:Neuropharmacology & toxicology  
Keywords: Muscles  
Keywords: Poisoning  
Keywords: H 1000:Occupational Safety and Health  
Keywords: organophosphates  
Keywords: Children  
Keywords: Chlorpyrifos  
Keywords: anorexia  
Keywords: Fungicides  
Keywords: Pesticides  
Keywords: Diazinon  
Keywords: Rural areas  
Keywords: Parathion  
Keywords: Hyperactivity English. Date revised - 2011-12-01. Last updated - 2013-05-31. DOI - MD-0017879074; 16084116; 0973-2284. SubjectsTermNotLitGenreText - Agriculture; Central nervous system; Pesticides (organophosphorus); Inventories; Diarrhea; Fumigants; Poisoning; Muscles; organophosphates; Children; Malathion; anorexia; Pesticides; Headache; Methyl parathion; tremor; Diazinon; Occupational exposure; Hyperactivity; Chlorpyrifos; Organophosphates; Fungicides; Parathion; Rural areas

540. Ravelo-PeĂŚÂrez, Lidia M.; HernaĂŚÂndez-Borges, Javier, and RodriĂŚÂguez-Delgado, Miguel AĂŚÂ ngel. Multi-walled carbon nanotubes as efficient solid-phase extraction materials of organophosphorus pesticides from apple, grape, orange and pineapple fruit juices. 2008; 1211, 33-42.   
Rec #: 11180  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Multi-walled carbon nanotubes (MWCNTs) have been used for the first time as solid-phase extraction (SPE) sorbents for the extraction of eight organophosphorus pesticides (i.e. ethoprophos, diazinon, chlorpyriphos-methyl, fenitrothion, malathion, chlorpyriphos, fenamiphos and buprofezin) from different commercial fruit juices (i.e. apple, grape, orange and pineapple). The developed method, which involves SPE and direct gas chromatography with nitrogen phosphorus detection analysis, is very fast, simple and cheap: only 1:1 dilution with Milli-Q water and pH adjustment to 6.0 of 10mL of juice is necessary prior to a quick MWCNTs-SPE procedure that used only 40mg of stationary phase (MWCNTs of 10-15nm o.d., 2-6nm i.d. and 0.1-10ĂŽÂĽm length). Mean recovery values were above 73% for all the pesticides and fruit juices (between 77 and 101% for apple juice, 75 and 103% for grape juice, 73 and 103% for orange juice and 73 and 93% for pineapple juice) with a relative standard deviation (RSD) lower than 8.5% in all cases. Matrix matched calibration was carried out for each sample matrix since statistical differences between the calibration curves constructed is pure solvent and in the reconstructed juice extracts were found. Limits of detection ranged between 1.85 and 7.32ĂŽÂĽg/L (which also represents LODs between 1.85 and 7.34ĂŽÂĽg/kg) well below the European Union maximum residue limits for the raw fruits. The proposed method, which is demonstrated to be quick, cheap, accurate and highly selective, was also applied to the analysis of this group of pesticides in several commercial juices in which none of the selected pesticides were found.  
Keywords: multi-walled carbon nanotubes  
Number of Volumes: 1-2  
Amsterdam; New York: Elsevier http://dx.doi.org/10.1016/j.chroma.2008.09.084

541. Reddy, D. S.; Srivastava, C., and Dhingra, S. Toxicity of Different Insecticides Against Malathion Resistant and Susceptible Strains of Tribolium castaneum (Herbst). 2004; 28, (2): 147-152.   
Rec #: 1590  
Keywords: NO CONC  
Call Number: NO CONC (BFT,CYP,DDVP,DM,MLN)  
Notes: Chemical of Concern: BFT,CYP,DDVP,DM,MLN

542. Reddy, V.; Freeman, T., and Cannon, M. Disposition and Metabolism of 14C-Labeled Malathion in Rats (Preliminary and Definitive Study). 1989.  
Rec #: 840  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

543. Ren, C-X; Yang, J-H, and Ren, C-X. Determination of Methyl Parathion, Malathion and Parathion in Seawater by Gc/Ms With Solid-Phase Extraction. 2010 Aug; 29, (4): 586-588.   
Rec #: 4100  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A method was established for methyl parathion, malathion and parathion in seawater by GC/MS with solid-phase extraction. Methyl parathion, malathion and parathion were extracted from seawater with octadecylsilica (C sub(18)) SPE cartridge, eluted with the methylene chloride, detected by selected ion monitoring mode and phenanthrene-d sub(10) as internal standard. The good linear responses were achieved and little inference. The detection limit was 0.20ng/L when the sample volume was 2L and average recoveries 96.0% similar to 122% (n = 6) , RSD 2.3% similar to 6.8% by the standards were put in seawater.  
Keywords: Oceanic Abstracts English. Date revised - 2010-10-01. Last updated - 2011-11-07. DOI - OB-MD-0014662737; 13711864; 1007-6336

544. Ren, Chaoxing; Yang, Jiahuan, and Ren, Chaoxing. Malathion and Parathion in Seawater by Gc/Ms With Solid-Phase Extraction. 2010 Mar; 29, (4): 586-588.   
Rec #: 4320  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A method was established for methyl parathion, malathion and parathion in seawater by GC/MS with solid-phase extraction. Methyl parathion, malathion and parathion were extracted from seawater with octadecylsilica(C sub(18)) SPE cartridge, eluted with the methylene chloride, detected by selected ion monitoring mode and phenanthrene-d sub(10) as internal standard. The good linear responses were achieved and little inference. The detection limit was 0.20ng/L when the sample volume was 2L and average recoveries 96.0%-122%(n=6), RSD 2.3%-6.8% by the standards were put in seawater.  
Keywords: Measurement  
Keywords: Marine  
Keywords: Sea water  
Keywords: ASFA 3: Aquatic Pollution & Environmental Quality; Oceanic Abstracts; ASFA 2: Ocean Technology Policy & Non-Living Resources  
Keywords: Gas chromatography  
Keywords: O 4080:Pollution - Control and Prevention  
Keywords: Pesticides  
Keywords: Q2 02182:Methods and instruments  
Keywords: Q5 01502:Methods and instruments  
Keywords: Water analysis  
Keywords: Mass spectroscopy  
Keywords: Organic phosphorus Chinese. Date revised - 2011-05-01. SuppNotes - Physical medium: Printed matter. Last updated - 2012-04-23. DOI - MD-0016304496; 14896431; CH1100210; 1007-6336. SubjectsTermNotLitGenreText - Measurement; Sea water; Gas chromatography; Pesticides; Water analysis; Mass spectroscopy; Organic phosphorus; Marine

545. Rezvanfar, Mohammad-Ali; Rezvanfar, Mohammad; Ranjbar, Akram; Abdollahi, Mohammad, and Rezvanfar, Mohammad-Ali. Protection Against Malathion-Induced Oxidative Stress in Rat Brain Mitochondria by Phosphodiesterase (Pde) Type 4 Selective Inhibitor. 2009 Sep 13.  
Rec #: 4720  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: U 2000:Biological Sciences  
Keywords: Phosphodiesterase  
Keywords: Oxidative stress  
Keywords: Brain  
Keywords: Inhibitors  
Keywords: Mitochondria English. Date revised - 2009-12-18. Last updated - 2010-05-03. DOI - CPI-5357710; 5357710

546. Rezvanfar, Mohammad-Ali; Rezvanfar, Mohammad Amin; Ranjbar, Akram, and Abdollahi, Mohammad. Protection against malathion-induced oxidative stress in rat brain mitochondria by phosphodiesterase (PDE) type 4 selective inhibitor: Abstracts of the 46th Congress of the European Societies of Toxicology. 2009 Sep 13-; 189, Supplement, (0): S215.   
Rec #: 400  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Malathion/ Rolipram/ Lipid peroxidation/ Brain/ Oxidative stress http://www.sciencedirect.com/science/article/pii/S0378427409009606

547. Riazuddin, Riazuddin; Khan, Muhammad Farhanullah; Iqbal, Sajid; Abbas, Muhammad, and Riazuddin, Riazuddin. Determination of Multi-Residue Insecticides of Organochlorine, Organophosphorus, and Pyrethroids in Wheat. 2011 Sep; 87, (3): 303-306.   
Rec #: 3180  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The undesirable effects of green revolution include residues of extensively used pesticides in various food commodities. Several studies showed that pesticides could cause health problems. Keeping in view the problem of pesticide residues in various food commodities, the present study was conducted on domestic stored wheat as well as on imported wheat for the qualitative and quantitative analysis of organochlorine, organophosphorus and pyrethroids. Among the imported wheat, 22.5% samples were found contaminated by organophosphorus (chlorpyrifos 0.073-0.230 mu g/g, malathion 0.0419-0.1003 mu g/g) and pyrethroids (cypermethrin 0.1404-0.2005 mu g/g, permethrin 0.0140-0.0480 mu g/g) while in domestic wheat 6.7% samples were found contaminated by pyrethroids (deltamethrin 0.0650-1.2903 mu g/g) only. Method used for extraction and analysis of insecticides was validated both by recovery studies and inter laboratory comparison proficiency test. The method recovery results show that the average recovery of the fortified wheat samples was in the range of 73.77%-100.17% with the RSD in the range of 2.21-9.27 whereas, the Z-scores of the inter laboratory comparison proficiency test's result was less than 2.  
Keywords: wheat  
Keywords: Organochlorine compounds  
Keywords: Cypermethrin  
Keywords: Pesticide residues  
Keywords: Food  
Keywords: Quantitative analysis  
Keywords: permethrin  
Keywords: Permethrin  
Keywords: Environment Abstracts; Pollution Abstracts; Toxicology Abstracts  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Deltamethrin  
Keywords: Malathion  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Chlorpyrifos  
Keywords: Triticum aestivum  
Keywords: Insecticides  
Keywords: Pesticides  
Keywords: Pyrethroids  
Keywords: X 24330:Agrochemicals English. Date revised - 2011-10-01. Last updated - 2012-03-29. DOI - f8305756-87fd-40a0-9faamfgefd108; 15511105; 0007-4861; 1432-0800. SubjectsTermNotLitGenreText - Chlorpyrifos; Organochlorine compounds; Insecticides; Cypermethrin; Pesticide residues; Food; Pesticides; Permethrin; Pyrethroids; Malathion; Deltamethrin; wheat; Quantitative analysis; permethrin; Triticum aestivum

548. Richmonds, C. and Dutta, H. M. Action of Malathion on the Gills of Bluegill Sunfish, Lepomis macrochirus. 1988: 1 p.(ABS).   
Rec #: 1420  
Keywords: ABSTRACT  
Call Number: NO ABSTRACT (MLN)  
Notes: Chemical of Concern: MLN

549. Riedel, B. and Christensen, G. Effect of Selected Water Toxicants and Other Chemicals upon Adenosine Triphosphatase Activity In Vitro. 1979; 23, 365-368.   
Rec #: 1070  
Keywords: IN VITRO  
Call Number: NO IN VITRO (1Major ions,AgN,CBL,DCF,Halides,MLN,NaCl,SFL)  
Notes: Chemical of Concern: AgN,AlCl,CBL,CdCl,DCF,DDT,DLD,HCCH,Halides,HgCl2,MLN,NaCl,PPCP,SFL

550. Riederer, Anne M; Hunter Jr, Ronald E; Hayden, Steven W; Ryan, P Barry, and Riederer, Anne M. Pyrethroid and Organophosphorus Pesticides in Composite Diet Samples From Atlanta, Usa Adults. 2009 Dec 8; 44, (1): 483-490.   
Rec #: 7270  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Four pyrethroid (permethrin, cyfluthrin, cypermethrin, deltamethrin) and 3 organophosphorus (chlorpyrifos, diazinon, malathion) pesticides were measured in 4 days of 24 h duplicate diet samples collected from 12 Atlanta adults over two cycles (2005-2006). Samples were composited into 9 categories, by food type, to evaluate their contribution to daily intakes. The resulting 437 samples were analyzed using a multiresidue method using liquid-liquid and solid-phase extraction followed by quantification via gas chromatograph with electron-capture detection. Total daily intakes (mg/kg-d) were calculated by summing the mass of a pesticide in all composites collected that day and dividing by body weight. Chlorpyrifos, diazinon, and cypermethrin in were detected in a range of composite types at frequencies >=30%, whereas other pesticides were detected at lower frequencies. Concentrations ranged from the detection limits (0.38-0.88 ng/g) to several hundred ng/g, exceeding U.S. tolerances in a few cases. We also detected pesticides in some foods labeled organic. Total daily intakes were below the U.S. Environmental Protection Agency's oral reference doses, except in 6% of cases when the organophosphorus concentrations were summed. Results show frequent dietary exposure of our participants to the target pesticides from a range of food types.  
Keywords: Diets  
Keywords: composite materials  
Keywords: Pollution Abstracts; Sustainability Science Abstracts; Environment Abstracts  
Keywords: M3 1010:Issues in Sustainable Development  
Keywords: permethrin  
Keywords: Malathion  
Keywords: Deltamethrin  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Chlorpyrifos  
Keywords: EPA  
Keywords: USA  
Keywords: cypermethrin  
Keywords: P 9000:ENVIRONMENTAL ACTION  
Keywords: Pesticides  
Keywords: USA, Georgia, Atlanta  
Keywords: Pyrethroids  
Keywords: Diazinon  
Keywords: body weight English. Date revised - 2010-08-01. Last updated - 2011-12-14. DOI - 9917968a-33fc-48cd-a0cfcsamfg201; 13268506; 0013-936X. SubjectsTermNotLitGenreText - Chlorpyrifos; Diets; EPA; cypermethrin; composite materials; Pesticides; permethrin; Pyrethroids; body weight; Diazinon; Deltamethrin; Malathion; USA; USA, Georgia, Atlanta

551. Rizzo, Luigi. Bioassays as a tool for evaluating advanced oxidation processes in water and wastewater treatment. 2011 Oct 1-; 45, (15): 4311-4340.   
Rec #: 800  
Keywords: EFFLUENT  
Notes: Chemical of Concern: MLN  
Abstract: Advanced oxidation processes (AOPs) have been widely used in water and wastewater treatment for the removal of organic and inorganic contaminants as well as to improve biodegradability of industrial wastewater. Unfortunately, the partial oxidation of organic contaminants may result in the formation of intermediates more toxic than parent compounds. In order to avoid this drawback, AOPs are expected to be carefully operated and monitored, and toxicity tests have been used to evaluate whether effluent detoxification takes place. In the present work, the effect of AOPs on the toxicity of aqueous solutions of different classes of contaminants as well as actual aqueous matrices are critically reviewed. The dualism toxicityÇôbiodegradability when AOPs are used as pre-treatment step to improve industrial wastewater biodegradability is also discussed. The main conclusions/remarks include the followings: (i) bioassays are a really useful tool to evaluate the dangerousness of AOPs as well as to set up the proper operative conditions, (ii) target organisms for bioassays should be chosen according to the final use of the treated water matrix, (iii) acute toxicity tests may be not suitable to evaluate toxicity in the presence of low/realistic concentrations of target contaminants, so studies on chronic effects should be further developed, (iv) some toxicity tests may be not useful to evaluate biodegradability potential, in this case more suitable tests should be applied (e.g., activated sludge bioassays, respirometry). Antibiotics/ Biodegradability/ Drinking water/ Dyes/ Emerging contaminants/ Endocrine disruptors/ Industrial wastewater/ Oxidation intermediates/ Pesticides/ Pharmaceuticals/ Photocatalysis/ Toxicity/ Urban wastewater/ Xenobiotics http://www.sciencedirect.com/science/article/pii/S0043135411003083

552. . Index. Robert Krieger. Hayes' Handbook of Pesticide Toxicology (Third Edition). New York: Academic Press; 2010: 2319-2342.   
Rec #: 1650  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: ISSN/ISBN: 978-0-12-374367-1 http://www.sciencedirect.com/science/article/pii/B9780123743671001300

553. Rong, L.; Guo, X.; Chen, K.; Zhu, J.; Li, S., and Jiang, J. Isolation of an Isocarbophos-Degrading Strain of Arthrobacter Sp. Scl-2 and Identification of the Degradation Pathway.   
Rec #: 9860  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: Isocarbophos is a widely used organophosphorus insecticide that has caused environmental pollution in many areas. However, degradation of isocarbophos by pure cultures has not been extensively studied, and the degradation pathway has not been determined. In this paper, a highly effective isocarbophos-degrading strain, scl-2, was isolated from isocarbophos-polluted soil. Strain scl-2 was preliminarily identified as Arthrobacter sp. based on its morphological, physiological, and biochemical properties, as well as 16S rDNA analysis. Strain scl-2 could utilize isocarbophos as its sole source of carbon and phosphorus for growth. One hundred mg/l isocarbophos could be degraded to a nondetectable level in 18 h by scl-2 in cell culture, and isofenphos-methyl, profenofos, and phosmet could also be degraded. During the degradation of isocarbophos, the metabolites isopropyl salicylate, salicylate, and gentisate were detected and identified based on MS/MS analysis and their retention times in HPLC. Transformation of gentisate to pyruvate and fumarate via maleylpyruvate and fumarylpyruvate was detected by assaying for the activities of gentisate 1,2- dioxygenase (GDO) and maleylpyruvate isomerase. Therefore, we have identified the degradation pathway of isocarbophos in Arthrobacter sp. scl-2 for the first time. This study highlights an important potential use of the strain scl-2 for the cleanup of environmental contamination by isocarbophos and presents a mechanism of isocarbophos metabolism.  
MESH HEADINGS: Arthrobacter/genetics/\*isolation &amp  
MESH HEADINGS: purification/\*metabolism  
MESH HEADINGS: Biodegradation, Environmental  
MESH HEADINGS: Dioxygenases/metabolism  
MESH HEADINGS: Insecticides/\*metabolism  
MESH HEADINGS: Malathion/\*analogs &amp  
MESH HEADINGS: derivatives/metabolism  
MESH HEADINGS: \*Metabolic Networks and Pathways  
MESH HEADINGS: Molecular Sequence Data  
MESH HEADINGS: Organothiophosphates/metabolism  
MESH HEADINGS: Organothiophosphorus Compounds/metabolism  
MESH HEADINGS: Phosmet/metabolism  
MESH HEADINGS: Phylogeny  
MESH HEADINGS: RNA, Ribosomal, 16S/genetics  
MESH HEADINGS: Salicylates/chemistry/metabolism  
MESH HEADINGS: Soil Microbiology  
MESH HEADINGS: Soil Pollutants/metabolism  
MESH HEADINGS: Time Factors  
MESH HEADINGS: cis-trans-Isomerases/metabolism eng

554. Roush, R. T. and Daly, J. C. The Role of Population Genetics in Resistance Research and Management. 1990; 5, 97-152.   
Rec #: 310  
Keywords: REVIEW  
Call Number: NO REVIEW (As,CBL,DZ,FNV,MLN,PIRM,PPX)  
Notes: Chemical of Concern: AND,As,CBL,CHX,DDT,DLD,DZ,FNV,MLN,PIRM,PPX

555. Rucci, G.; Becci, P. J., and Parent, R. A. The Evaluation fo the Chronic Toxicity Effects of Cythion Administered in the Diet to Sprague-Dawley Rats for 24 Consecutive Months. 1980.  
Rec #: 850  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

556. Ruckmani, a ; Nayar, Pradeep G; Konda, Venu Gopala Rao; Madhusudhanan, N; Madhavi, E; Chokkalingam, M; Meti, Vinayak, and Sundaravalli, S. Effects of Inhalational Exposure of Malathion on Blood Glucose and Antioxidants Level in Wistar Albino Rats. 2011 Sep-2011 Oct 31; 5, (5): 309-315.   
Rec #: 3240  
Keywords: INHALE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The adverse effects of spraying pesticides to the ecosystem are being widely studied. While the effects of their oral and topical exposure have been reported, especially on carbohydrate metabolism, the effects of inhalational exposure have not been reported. Hence, this study was undertaken to investigate the effects of malathion, a commonly used pesticide, on blood glucose and antioxidant status in rats. In acute study, 8 groups of 6 animals each were exposed to 50% malathion for 5 min. Blood glucose level was estimated for all the rats before exposure and at 5, 10, 20, 30, 60 120, 180 and 240 min after exposure for groups G to 8, respectively. Blood glucose increased from the basal level of 88 mg dLr1, reached 131 mgdLr1 in 60 min and attained basal level at 240 min. In sub chronic study, there were two groxips of 6 animals each control and test. **Test group was exposed to malathion vapours** for 5 min every day for 28 days. Glucose level was estimated on days O, 7, 14, 21 and 28 for both groups. The base line value of 93 mg dLr1 increased to 178 mg dLr1 on day 28 in test group. Test animals also showed weight loss of 9.2% and significant reduction of anti oxidante level compared to control group. Thus acute malathion exposure has caused transient hyperglycemia and sub chronic exposure, progressive hyperglycemia (p<0.05) and weight loss. In conclusion, sub chronic malathion exposure causes progressive hyperglycemia which can be a risk factor for diabetes. [PUBLICATION ABSTRACT]  
Keywords: Hyperglycemia  
Keywords: Environmental Studies--Toxicology And Environmental Safety  
Keywords: Glucose  
Keywords: Rodents  
Keywords: Diabetes English. Copyright - Copyright Academic Journals Inc. Sep/Oct 2011. Document feature - References; Graphs. Last updated - 2013-05-09. DOI - 2606420611; 67902132; 135835; RNTX; INODRNTX0007722543. REFERENCES. Abdelgadirand, E.H. and S.E.I. Adam, 2011. Effect of various Levels of dietary malathion on wistar rats. J. Pharmacol. Toxicol., 6: 69-75. Abdollahi, M., M. Donyavi, S. Pournourmohammadi and M. Saadat, 2004. Hyperglycemia associated with increased hepatic glycogen phosphorylase and phosphoenolpyruvate carboxykinase in rats following subchronic exposure to malathion. Comp. Biochem. Physiol. Part C, 137: 343-347. Aebi, H., 1984. Catalase in vitro. Methods Enzymol., 105: 121-126. Beard, J., T. Sladden, G. Morgan, G. Berry, L. Brooks and A. McMichael, 2003. Health impacts of pesticide exposure in a cohort of outdoor workers. Environ. Health Perspect., Ill: 724-730. Begum, G. and S. Vijayaraghavan, 1999. Effect of acute exposure of the organophosphate insecticide Rogor on some biochemical aspects of CiarĂ­as batrachus (Linnaeus). Environ. Res., 80: 80-83. Binukumar, B.K. and K.D. Gill, 2011. Chronic Exposure to Pesticides-Neurological, Neurobehavioral and Molecular Targets of Neurotoxicity. In: Pesticides in the Modern World - Effects of Pesticides Exposure, Stoytcheva, M. (Ed.). InTech., ISBN: 978-953-307-4542, pp: 1-18. Carlberg, I. and B. Mannervik, 1975. Purification and characterization of the flavoenzyme glutathione reductase from rat liver. J. Biol. Chem., 250: 5475-5480. Datta, S., P. Dhar, A. Mukherjee and S. Ghosh, 2010. Influence of polyphenolic extracts from Enydra fluctuans on oxidative stress induced by acephate in rats. Food Chem. Toxicol., 48: 2766-2771. Durak, D., F.G. Uzun, S. Kalender, A. Ogutcu, M. Uzunhisarcikli and Y. Kalender, 2009. Malathion- induced oxidative stress in human erythrocytes and the protective effect of vitamins C and E in vitro. Environ. Toxicol., 24: 235-242. El-Demerdash, F.M., 2011. Lipid peroxidation, oxidative stress and acetylcholinesterase in rat brain exposed to organophosphate and pyrethroid insecticides. Food Chem. Toxicol., 49: 1346-1352. El-Kott, A.F. and M.M. Bin-Meferij, 2008. Influence of Green tea on haematological and lung histological disorders induced by malathion in rats. Res. J. Environ. Toxicol., 2: 85-91. Flohe, L. and F. Otting, 1984. Dismutase Assays. In: Methods in Enzymology, Abelson, J.N. and M.I. Simon (Eds.). Vol. 105, Academic Press, New York, pp: 93-104. Franco, J.L., T. Posser, J.J. Mattos, R. Trevisan and P.S. Brocardo et al., 2009. Zinc reverses malathion-induced impairment in antioxidant defenses. Toxicol. Lett., 187: 137-143. Fulia, A., P.K. Chauhan and R.K. Sharma, 2011. Ameliorating effect of vitamin E on testicular toxicity induced by endosulphan in Capra hircus in vitro. J. Pharmacol. Toxicol., 6: 133-140. Hectors, T.L., C. Vanparys, K. van der Ven, G.A. Martens and P. G. 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Tos-Luty, S; Obuchowska-Przebirowska, D; Latuszynska, J; Tokarska-Rodak, M; et al. Dermal and oral toxicity of malathion in rats. ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE, 10. 1 (2003): 101-106. INST AGRICULTURAL MEDICINE

557. Russo, Mario Vincenzo; Avino, Pasquale; Cinelli, Giuseppe; Notardonato, Ivan, and Russo, Mario Vincenzo. Sampling of Organophosphorus Pesticides at Trace Levels in the Atmosphere Using Xad-2 Adsorbent and Analysis by Gas Chromatography Coupled With Nitrogen-Phosphorus and Ion-Trap Mass Spectrometry Detectors. 2012 Sep; 404, (5): 1517-1527.   
Rec #: 5640  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This paper shows an analytical methodology based on solid-phase extraction by XAD-2 adsorbent and gas chromatography (GC) coupled with nitrogen-phosphorus (NPD) and ion-trap mass spectrometry detectors (ITMS) in negative chemical ionization (NCI) mode analyses for investigating organophosphorus pesticides (OPs) at trace levels (in nanograms per cubic meter) in the atmosphere: in particular, we set up a procedure for analyzing 38 OPs. For the analytical methodology linearity responses have been obtained in GC-NPD (r>0.9982) and GC-NCI/ITMS (r>0.9974) in a large linearity range (0.10-500 pg mu L super(-1) in both cases) whereas the limits of detection range between 0.01 and 0.03 pg mu L super(-1) in both the techniques with a relative standard deviation (RSD) below 9.0 in both cases. Particular attention has been devoted to investigate the effect of different solvents (n-hexane, benzene, chloroform, carbon disulfide, acetonitrile) on the OP recovery as well the breakthrough volumes have been evaluated (100% recovery up to 4,286 L g super(-1)). The study has also investigated the OP recoveries at different sampling flow rates (1.5 and 2.0 L min super(-1)) for determining the optimal conditions for sample collection. Finally, the whole approach has been successfully applied to real samples collected in four different areas in the Molise region (Central Italy) during different seasons: the results show that parathion-ethyl, dimethoate, omethoate, and malathion are present in all periods at low levels (ranging between 70 and 10 ng m-3): their levels in such periods can be correlated with spraying as well atmospheric conditions favoring the dispersion/accumulation of these pollutants Figure Sampling system of organophosphorus pesticides in atmosphere and relative GC-NPD chromatogram  
Keywords: Recovery  
Keywords: Detectors  
Keywords: Pesticides  
Keywords: Linearity  
Keywords: Adsorbents  
Keywords: Solid State and Superconductivity Abstracts (SO); METADEX (MD); Advanced Polymers Abstracts (EP); Environmental Engineering Abstracts (EN); Composites Industry Abstracts (ED); Engineered Materials Abstracts, Ceramics (EC)  
Keywords: Sampling  
Keywords: Nanostructure  
Keywords: Mathematical analysis English. Date revised - 2012-11-01. Last updated - 2013-05-09. DOI - 4d2bcfac-d3d9-40e3-9f37csamfg201; 17203661; CS1311751; 1618-2642

558. Ryberg, Karen R; Vecchia, Aldo V; Martin, Jeffrey D; Gilliom, Robert J, and Ryberg, Karen R. Trends in Pesticide Concentrations in Urban Streams in the United States, 1992-2008. 2010.  
Rec #: 7240  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pesticide concentration trends in streams dominated by urban land use were assessed using data from 27 urban streams sampled as part of the U.S. Geological Survey National Water-Quality Assessment Program. The sites were divided into four regions, Northeast, South, Midwest, and West, to examine possible regional patterns. Three partially overlapping 9-year periods (1992-2000, 1996-2004, and 2000-2008) were examined for eight herbicides and one degradation product (simazine, prometon, atrazine, deethylatrazine, metolachlor, trifluralin, pendimethalin, tebuthiuron, and Dacthal), and five insecticides and two degradation products (chlorpyrifos, malathion, diazinon, fipronil, fipronil sulfide, desulfinylfipronil, and carbaryl). The data were analyzed for trends in concentration using a parametric regression model with seasonality, flow-related variability, and trend, called SEAWAVE-Q. The SEAWAVE-Q model also was used to generate estimated daily concentration percentiles for each analysis period to provide a summary of concentration magnitudes. For herbicides, the largest 90th percentiles of estimated concentrations for simazine were in the South, prometon at some sites in all of the regions, atrazine and deethylatrazine in the South and Midwest, metolachlor in the Midwest and a few sites in the South, pendimethalin at scattered sites in all of the regions, and tebuthiuron in the South and a few sites in the Midwest and West. For insecticides, the largest 90th percentiles of estimated concentrations for diazinon and carbaryl were distributed among various sites in all regions (especially during 1996-2004), and fipronil at isolated sites in all of the regions during 2000-2008. Trend analysis results for the herbicides indicated many significant trends, both upward and downward, with varying patterns depending on period, region, and herbicide. Overall, deethylatrazine showed the most consistent pattern of upward trends, especially in the Northeast (2000-2008), South (1996-2004 and 2000-2008), and Midwest (1996-2004 and 2000-2008). Other herbicides showed less consistent upward trends, including simazine in the South (1996-2004), prometon in the Midwest (2000-2008), and atrazine in the South (1996-2004). The most consistent downward trends were for simazine in the Northeast and Midwest (1996-2004), prometon in the Northeast and Midwest (1996-2004) and West (1996-2004 and 2000-2008), and tebuthiuron in the South (1996-2004 and 2000-2008) and West (2000-2008). Strong similarity existed between the trends for atrazine and deethylatrazine during 1996-2004. During 2000-2008, however, there were mixed upward and downward trends in atrazine and predominantly upward trends in deethylatrazine. Ten sites with a downward trend in atrazine were paired with an upward trend in deethylatrazine and for three of these sites (1 in the South and 2 in the Midwest) both opposing trends were significant. Opposing trends showing a decrease in atrazine and an increase in deethylatrazine may indicate that decreases in atrazine from surface runoff are being offset in some cases by increases in deethylatrazine from groundwater for the latter analysis period. Trend results for insecticides indicated widespread significant downward trends for chlorpyrifos (especially 1996-2004), diazinon (1996-2004 and 2000-2008), and malathion (especially 1996-2004); widespread significant upward trends for fipronil and its degradation products (2000-2008); and mostly nonsignificant trends for carbaryl (1996-2004 and 2000-2008). The downward trends for chlorpyrifos and diazinon were consistent with the regulatory phaseout of residential uses of these insecticides and the upward trends for fipronil and its degradation products were consistent with its introduction in 1996 and subsequent increasing use as a possible substitute for chlorpyrifos and diazinon. The downward trends in malathion may be caused by voluntary substitution of pyrethroids or fipronil for malathio  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: Seasonality  
Keywords: Q1 01604:Stock assessment and management  
Keywords: Resource management  
Keywords: SW 3040:Wastewater treatment processes  
Keywords: Triazine Pesticides  
Keywords: Herbicides  
Keywords: Q5 01502:Methods and instruments  
Keywords: Streams  
Keywords: Sulphides  
Keywords: USA  
Keywords: Agricultural Chemicals  
Keywords: Insecticides  
Keywords: Aqualine Abstracts; Water Resources Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; ASFA 1: Biological Sciences & Living Resources  
Keywords: Atrazine  
Keywords: Pesticides  
Keywords: Geological surveys  
Keywords: Degradation Products  
Keywords: Diazinon  
Keywords: Runoff English. Date revised - 2011-11-01. Last updated - 2012-03-29. DOI - 58c7d2fb-0d67-423d-99fdcsamfg201; 15957708; NO1100786

559. Sadowska-Rociek, Anna; Surma, Magdalena; Cielik, Ewa, and Sadowska-Rociek, Anna. Application of Quechers Method for Simultaneous Determination of Pesticide Residues and Pahs in Fresh Herbs. 2013 Apr; 90, (4): 508-513.   
Rec #: 5390  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The aim of this study was to evaluate the application of quick, easy, cheap, effective, rugged and safe method for simultaneous determination of polycyclic aromatic hydrocarbons and pesticide residues in fresh herbs. In the experiment two extraction solvents and standard types of sorbents were used. The extracts were analyzed using GC-SIM-MS. The results suggest that acetonitrile is more suitable extraction solvent giving more purified samples and better recovery values (71.6 %-116.9 %) with RSD lower than 15 % for most of the compounds. In real samples pesticides were identified in the samples of parsley, tarragon and lovage. In few samples the pesticide levels exceeded the MRL established by EU.  
Keywords: Polycyclic aromatic hydrocarbons  
Keywords: Pesticide residues  
Keywords: Solvents  
Keywords: Environment Abstracts; Pollution Abstracts; Toxicology Abstracts  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Environmental Studies  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Sorbents  
Keywords: Economics  
Keywords: Pesticides  
Keywords: Acetonitrile  
Keywords: Herbs  
Keywords: X 24330:Agrochemicals English. Date revised - 2013-03-01. Last updated - 2013-04-11. DOI - OB-c12091ce-a836-4302-84bamfgefd101; 17788899; 0007-4861; 1432-0800. SubjectsTermNotLitGenreText - Polycyclic aromatic hydrocarbons; Pesticide residues; Pesticides; Solvents; Acetonitrile; Herbs; Sorbents; Economics

560. Sakai, M. Acute Toxic Tests of Rainwater Samples Using Daphnia magna. 2006; 64, 215-220.   
Rec #: 1620  
Keywords: MIXTURE  
Call Number: NO MIXTURE (1Major ions,ATZ,CLNB,CPY,CTN,CaCl2,DDVP,DS,DZ,ES1,ES2,FNT,FTL,Halides,MLN,MLO,MLT,MP,NaNO3,PDM,PNB,PZM,SA2Na,SZ,TBC,TFN)  
Notes: Chemical of Concern: ATZ,BTC,CLNB,CPY,CTN,CaCl2,DDVP,DS,DZ,EPRN,ES1,ES2,FNT,FNTH,FTL,HCCH,Halides,KCl,MLN,MLO,MLT,MP,MgSO4,NPP,NaNO3,ODZ,PDM,PNB,PPCP,PRN,PZM,SA2Na,SZ,TBC,TCM,TFN

561. Sala, Serenella; Migliorati, Sonia; Monti, Gianna S; Vighi, Marco, and Sala, Serenella. Ssd-Based Rating System for the Classification of Pesticide Risk on Biodiversity. 2012 May; 21, (4): 1050-1062.   
Rec #: 5780  
Keywords: MODELING  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A novel approach, based on Species sensitivity distribution (SSD), is proposed for the development of an index for classifying ecotoxicological pesticide risk in surface waters. In this approach, the concept of TER (Toxicity Exposure Ratio), commonly used in traditional risk indices, is substituted by the concept of PAF (Potentially Affected Fraction), which takes into account several species within the biological community of interest, rather than just a small number of indicator species assumed as being representative of the ecosystem. The procedure represents a probabilistic tool to quantitatively assess the ecotoxicological risk on biodiversity considering the distribution of toxicological sensitivity. It can be applied to assess chemical risk on generic aquatic and terrestrial communities as well as on site-specific natural communities. Examples of its application are shown for some pesticides in freshwater ecosystems. In order to overcome the problem of insufficient reliable ecotoxicological data, a methodology and related algorithms are proposed for predicting SSD curves for chemicals that do not have sufficient available data. The methodology is applicable within congeneric classes of chemicals and has been tested and statistically validated on a group of organophosphorus insecticides. Values and limitations of the approach are discussed.  
Keywords: Data processing  
Keywords: Ecology Abstracts; Toxicology Abstracts; Pollution Abstracts  
Keywords: Surface water  
Keywords: Algorithms  
Keywords: Biodiversity  
Keywords: Toxicity  
Keywords: Environmental Studies  
Keywords: Platelet-activating factor  
Keywords: Freshwater ecosystems  
Keywords: Insecticides  
Keywords: Classification  
Keywords: Pesticides  
Keywords: X 24330:Agrochemicals  
Keywords: Indicator species English. Date revised - 2012-06-01. Last updated - 2012-06-07. DOI - OB-db6c76ce-db61-4d26-b184mfgefd101; 16761616; 0963-9292; 1573-3017. SubjectsTermNotLitGenreText - Platelet-activating factor; Insecticides; Freshwater ecosystems; Data processing; Classification; Surface water; Pesticides; Algorithms; Biodiversity; Toxicity; Indicator species

562. Samadi, S.; Sereshti, H., and Assadi, Y. Ultra-preconcentration and determination of thirteen organophosphorus pesticides in water samples using solid-phase extraction followed by dispersive liquid-liquid microextraction and gas chromatography with flame photometric detection. 2012; 1219, 61-65.   
Rec #: 15670  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: An ultra-preconcentration technique composed of solid-phase extraction (SPE) and dispersive liquid-liquid microextraction (DLLME) coupled with gas chromatography-flame photometric detection (GC-FPD) was used for determination of thirteen organophosphorus pesticides (OPPs) including phorate, diazinon, disolfotane, methyl parathion, sumithion, chlorpyrifos, malathion, fenthion, profenphose, ethion, phosalone, azinphose-methyl and co-ral in aqueous samples. The analytes were collected from large volumes of aqueous solutions (100 mL) into 100 mg of a SPE C(18) sorbent. The effective variables of SPE including type and volume of elution solvent, volume and flow rate of sample solution, and salt concentration were investigated and optimized. Acetone was selected as eluent in SPE and disperser solvent in DLLME and chlorobenzene was used as extraction solvent. Under the optimal conditions, the enrichment factors were between 15,160 and 21,000 and extraction recoveries were 75.8-105.0%. The linear range was 1-10,000 ng L(-1) and limits of detection (LODs) were between 0.2 and 1.5 ng L(-1). The relative standard deviations (RSDs) for 50 ng L(-1) of OPPs in water with and without an internal standard, were in the range of 1.4-7.9% (n = 5) and 4.0-11.6%. respectively. The relative recoveries of OPPs from well and farm water sat spiking levels of 25 and 250 ng L(-1) were 88-109%. (C) 2011 Elsevier B.V. All rights reserved.  
ISI Document Delivery No.: 882TD <Go to ISI>://CCC:000299585900007

563. Sanchez-Acevedo, Z C; Riu, J; Rius, F X, and Sanchez-Acevedo, Z C. Fast Picomolar Selective Detection of Bisphenol a in Water Using a Carbon Nanotube Field Effect Transistor Functionalized With Estrogen Receptor- Alpha. 2009 May 15; 24, (9): 2842-2846.   
Rec #: 7650  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this paper we report a biosensor for the fast, ultrasensitive and selective determination of bisphenol A in water. It is based on a field effect transistor (FET) in which a network of single-walled carbon nanotubes (SWCNTs) acts as the conductor channel. SWCNTs are functionalized for the first time with a nuclear receptor, the estrogen receptor alpha (ER- alpha ), which is adsorbed onto the SWCNTs and acts as the sensing part of the biosensor. SWCTNs are subsequently protected to prevent the non-specific binding of interferences. With this biosensor we can detect picomolar concentrations of BPA in only 2min of analysis. Selectivity has been tested against possible interferences such as fluoranthene, pentacloronitrobenzene and malathion, and this is the first device that experimentally shows that small molecules can also be selectively detected at ultralow concentrations using a CNTFET biosensor.  
Keywords: Biosensors  
Keywords: Bisphenol A  
Keywords: Fluoranthene  
Keywords: Carbon  
Keywords: Nuclear receptors  
Keywords: Biotechnology and Bioengineering Abstracts  
Keywords: W 30955:Biosensors  
Keywords: Conductors  
Keywords: Estrogen receptors  
Keywords: Malathion English. Date revised - 2009-05-01. Last updated - 2011-12-14. DOI - MD-0009542887; 9212962; 0956-5663. SubjectsTermNotLitGenreText - Biosensors; Estrogen receptors; Carbon; Bisphenol A; Nuclear receptors; Malathion; Fluoranthene; Conductors

564. Sanchez, Brian C; Yale, Gowri; Chatni, Rameez; Ochoa-Acuna, Hugo G; Porterfield, Dmarshall; Mclamore, Eric S; Sepulveda, Maria S, and Sanchez, Brian C. Oxygen Flux as an Indicator of Physiological Stress in Aquatic Organisms: a Real-Time Biomonitoring System of Water Quality. 2009 May; 7304.  
Rec #: 4980  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The detection of harmful chemicals and biological agents in real time is a critical need for protecting water quality. We studied the real-time effects of five environmental contaminants with differing modes of action (atrazine, pentachlorophenol, cadmium chloride, malathion, and potassium cyanide) on respiratory oxygen consumption in 2-day post-fertilization fathead minnow (Pimephales promelas) eggs. Our objective was to assess the sensitivity of fathead minnow eggs using the self-referencing micro- optrode technique to detect instantaneous changes in oxygen consumption after brief exposures to low concentrations of contaminants. Oxygen consumption data indicated that the technique is indeed sensitive enough to reliably detect physiological alterations induced by all contaminants. After 2 h of exposure, we identified significant increases in oxygen consumption upon exposure to pentachlorophenol (100 and 1000 [mu]g/L), cadmium chloride (0.0002 and 0.002 [mu]g/L), and atrazine (150 [mu]g/L). In contrast, we observed a significant decrease in oxygen flux after exposures to potassium cyanide (5.2, 22, and 44 [mu]g/L) and atrazine (1500 [mu]g/L). No effects were detected after exposures to malathion (200 and 340 [mu]g/L). We have also tested the sensitivity of Daphnia magna embryos as another animal model for real-time environmental biomonitoring. Our results are so far encouraging and support further development of this technology as a physiologically coupled biomonitoring tool for the detection of environmental toxicants.  
Keywords: water quality  
Keywords: Water Pollution  
Keywords: Toxicants  
Keywords: Physiology  
Keywords: Chlorides  
Keywords: SW 3030:Effects of pollution  
Keywords: Oxygen Requirements  
Keywords: Malathion  
Keywords: Eggs  
Keywords: Daphnia magna  
Keywords: Article no. 730405  
Keywords: Cyanide  
Keywords: Pollutants  
Keywords: Exposure  
Keywords: cadmium  
Keywords: Embryos  
Keywords: Cadmium  
Keywords: Bioindicators  
Keywords: Oxygen consumption  
Keywords: Sensitivity  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Potassium  
Keywords: pentachlorophenol  
Keywords: Stress  
Keywords: Herbicides  
Keywords: AQ 00003:Monitoring and Analysis of Water and Wastes  
Keywords: Toxicity  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Aqualine Abstracts; Pollution Abstracts; Water Resources Abstracts; Environment Abstracts  
Keywords: Oxygen  
Keywords: Pimephales promelas  
Keywords: Water Pollution Effects  
Keywords: Atrazine  
Keywords: Explosives  
Keywords: Technology English. Date revised - 2009-08-01. SuppNotes - Session: Biological Sensing I. Last updated - 2012-03-29. DOI - MD-0010021611; 10148863; 0277-786X

565. Sankaran, Gayatri and Eastmond, David A. An Evaluation of the Importance of Hand Exposures Using Rubber Latex Gloves as Sampling Dosimeters for Assessing Pesticide Exposures in Strawberry Harvesters. 2012.  
Rec #: 7970  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The widespread use of pesticides in California is commonly viewed as a significant public health concern. Exposure is particularly a concern for workers who use pesticides in agriculture or who are exposed to them during the harvesting of fruits and vegetables. Previous research has shown that direct dermal and clothing contact with foliar residues is primarily responsible for pesticide exposures among harvesters. These exposures occur primarily due to hand contact with treated leaf surfaces while picking the fruit. The overall objective of our research was to conduct detailed, systematic evaluations of strawberry harvester exposures for periods extending up to 3 weeks after the application of malathion, an organophosphate insecticide, and fenpropathrin, a pyrethroid insecticide. Since exposure occurs primarily through the workers' hands, we decided to also investigate the effectiveness of rubber latex gloves as sampling dosimeters to measure the transfer and dissipation of malathion and fenpropathrin. During the first phase of our studies, we conducted controlled field studies on turf using rubber latex gloves to define the factors that could influence the transfer of pesticides to the glove and that would affect their use as a residue monitoring device. We developed a novel sampling device called the Brinkman Contact Transfer Unit (BCTU) to study the glove characteristics and residue transfer and accumulation under controlled conditions on turf. A validation of the use of rubber latex gloves as a residue sampling dosimeter was performed by comparing pesticide transfer and dissipation from the gloves with the transferable turf residues sampled using the validated California Department of Food and Agriculture (CDFA) roller, a standard measure of residue transfer. The observed correlation between the two methods were 0.93 for malathion and 0.87 for fenpropathrin, indicating that the BCTU is a useful surrogate tool for studying available residue transfer to rubber latex gloves under experimental conditions. In the second phase of our studies, we investigated the transfer of pesticide residues from foliage to strawberry harvesters under normal work conditions in the field. In addition, foliar residue dissipation from the leaves and gloves was measured using five independent sampling methods. Malathion and fenpropathrin residues, sampled by measuring dislodgeable foliar residues or the transfer of foliar residues to cotton cloth dosimeters, decayed by 90% within 7 days after pesticide application. When harvesters picking fruit wore rubber latex gloves for food safety and hygiene reasons, the gloves accumulated pesticide residues. Within 7 days, the recovery of residues on the gloves decreased by 75%. Though this decline is slightly slower than that seen with the foliar residues, both reached low stable levels. Quantitative measurements of end-of-shift harvester hand washes and 16 hour harvester urine samples were also collected from barehanded and gloved harvesters to study hand exposures and internal exposures as absorbed daily dosages, respectively. Hand wash residue levels decayed by 90%, within 7 days after pesticide application, and less than 2% of measured residues penetrated the latex gloves to reach the harvester hands. Based on these measures, the gloved harvesters had 45% lower internal exposure than the barehanded harvesters, demonstrating that rubber latex gloves are a protective barrier to surface residues. Overall, the absorbed daily doses of malathion for barehanded and gloved harvesters were lower than 0.005 mg/kg-day. However, the decline in excreted urine metabolites were only 43% in gloved harvesters and 33% in barehanded harvesters, which was slower and more prolonged than expected based on our observations from other sampling techniques. Our results indicate that there were likely other sources of exposure such as malathion breakdown products present on the foliar surfaces after the dissipation of malathion itself. This is consistent with recent studies that have shown that malathion degradation products are present for prolonged periods on foliar surfaces. Overall, our studies demonstrate that latex gloves can be useful as dosimeters of pesticide residues and show that malathion and fenpropathrin themselves dissipate relatively quickly from strawberry fields.  
Start Page: 317  
ISSN/ISBN: 9781267904874  
Keywords: Strawberry harvesters  
Keywords: Environmental science  
Keywords: 0383:Toxicology  
Keywords: 0354:Occupational health  
Keywords: Exposure assessment  
Keywords: 0768:Environmental science  
Keywords: 0383:Surgery  
Keywords: Surgery  
Keywords: Pesticides  
Keywords: Rubber latex gloves  
Keywords: Health and environmental sciences  
Keywords: Toxicology  
Keywords: Occupational health English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2012. Last updated - 2013-05-01. DOI - 2897778831; 68784812; 66569; 9781267904874; 3552172. First page - n/a

566. Sato, R. and Kubo, H. The Water Pollution Caused by Organophosphorus Insecticides in Japan. 1964: 95-99.   
Rec #: 1320  
Keywords: FATE  
Call Number: NO FATE (MLN)  
Notes: Chemical of Concern: EPRN,MLN,PRN

567. Schleier, Jerome J; Macedo, Paula a; Davis, Ryan S; Shama, Leslie M; Peterson, Robert Kd, and Schleier, Jerome J. A Two-Dimensional Probabilistic Acute Human-Health Risk Assessment of Insecticide Exposure After Adult Mosquito Management. 2009 Jul; 23, (5): 555-563.   
Rec #: 4860  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Ultra-low-volume (ULV) aerosol applications of insecticides are used to manage high densities of adult mosquitoes. We used two-dimensional probabilistic risk assessment methodologies to evaluate three pyrethroid insecticides (phenothrin, resmethrin, and permethrin), pyrethrins, and two organophosphate insecticides (malathion and naled), applied by truck-mounted ULV sprayer. Piperonyl butoxide, a synergist commonly used in pyrethroid and pyrethrins formulations, was also assessed. The objective of our study was to evaluate probabilistically if a deterministic human-health risk assessment of mosquito insecticides was sufficiently conservative to protect human-health. Toddlers and infants were the highest risk groups while adult males were the lowest risk group assessed in this study. Total acute exposure ranged from 0.00003 to 0.0003 mg/kg day-1 for the chemicals and subgroups assessed examining inhalation, dermal, oral, and hand-to-mouth exposure. We used the risk quotient (RQ) method for our risk assessment, which is calculated by dividing the total potential exposure for each subgroup and chemical by its ingestion toxic endpoint value (RfD). Mean RQs ranged from 0.000004 to 0.034 for all subgroups and chemicals, with none exceeding the RQ level of concern. Naled had the highest RQs of any chemical assessed while PBO had the lowest. Sensitivity analysis demonstrated that the exposure from inhalation and deposition contributed the largest variance to the model output. Results support the findings of previous studies that the risks from adult mosquito management are most likely negligible, and that the human-health deterministic risk assessment is most likely sufficiently conservative.  
Keywords: Inhalation  
Keywords: Chemicals  
Keywords: Risk assessment  
Keywords: Organophosphates  
Keywords: permethrin  
Keywords: Piperonyl butoxide  
Keywords: Malathion  
Keywords: Models  
Keywords: Insecticides  
Keywords: sensitivity analysis  
Keywords: Risk groups  
Keywords: Pyrethroids  
Keywords: X 24330:Agrochemicals  
Keywords: pyrethrins  
Keywords: Engineering--Hydraulic Engineering  
Keywords: Aerosols  
Keywords: Skin  
Keywords: Sprays  
Keywords: Permethrin  
Keywords: Culicidae  
Keywords: organophosphates  
Keywords: Ingestion  
Keywords: Stochasticity  
Keywords: Pollutant deposition  
Keywords: Toxicology Abstracts; Pollution Abstracts; Risk Abstracts; Environmental Engineering Abstracts  
Keywords: Infants English. Date revised - 2009-07-01. Last updated - 2011-11-05. DOI - OB-MD-0009700174; 9408377; 1436-3240; 1436-3259. SubjectsTermNotLitGenreText - Culicidae; Risk assessment; Insecticides; Chemicals; Inhalation; Pyrethroids; Sprays; Aerosols; Organophosphates; sensitivity analysis; Malathion; Pollutant deposition; permethrin; Infants; Ingestion; Risk groups; pyrethrins; Skin; Models; Permethrin; organophosphates; Stochasticity; Piperonyl butoxide

568. Schleier, Jerome J. III; Davis, Ryan S.; Barber, Loren M.; MacEdo, Paula A., and Peterson, Robert K. D. A Probabilistic Risk Assessment for Deployed Military Personnel After the Implementation of the Ã¢â‚¬Å“Leishmaniasis Control ProgramÃ¢â‚¬Â at Tallil Air Base, Iraq. 2009; 46, 693-702.   
Rec #: 11260  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Leishmaniasis has been of concern to the U.S. military and has re-emerged in importance because of recent deployments to the Middle East. We conducted a retrospective probabilistic risk assessment for military personnel potentially exposed to insecticides during the Ã¢â‚¬Å“Leishmaniasis Control PlanÃ¢â‚¬Â (LCP) undertaken in 2003 at Tallil Air Base, Iraq. We estimated acute and subchronic risks from resmethrin, malathion, piperonyl butoxide (PBO), and pyrethrins applied using a truck-mounted ultra-low-volume (ULV) sprayer and lambda-cyhalothrin, cyfluthrin, bifenthrin, chlorpyrifos, and cypermethrin used for residual sprays. We used the risk quotient (RQ) method for our risk assessment (estimated environmental exposure/toxic endpoint) and set the RQ level of concern (LOC) at 1.0. Acute RQs for truck-mounted ULV and residual sprays ranged from 0.00007 to 33.3 at the 95th percentile. Acute exposure to lambda-cyhalothrin, bifenthrin, and chlorpyrifos exceeded the RQ LOC. Subchronic RQs for truck-mounted ULV and residual sprays ranged from 0.00008 to 32.8 at the 95th percentile. Subchronic exposures to lambda-cyhalothrin and chlorpyrifos exceeded the LOC. However, estimated exposures to lambda-cyhalothrin, bifenthrin, and chlorpyrifos did not exceed their respective no observed adverse effect levels.  
Keywords: sand fly control  
Number of Volumes: 3  
Includes references 1022826775 http://dx.doi.org/10.1603/033.046.0337

569. Schnick, R. A. and Graves, K. A. Investigations in Fish Control: Index to Numbers 1-72, 1964-76. 1977: 19 p.   
Rec #: 1430  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ATM,Cu,DQTBr,ES,MLN,NaCN,RTN,Zn,Zn element), NO REVIEW (ATM,Cu,DQTBr,ES,MLN,NaCN,RTN,Zn,Zn element)  
Notes: Chemical of Concern: ATM,BZC,CHD,Cu,DDT,DQTBr,ES,HPT,MLN,NaCN,PL,PPCP,RTN,TXP,Zn

570. Schofield, Da; Dinovo, a a, and Schofield, DA. Generation of a Mutagenized Organophosphorus Hydrolase for the Biodegradation of the Organophosphate Pesticides Malathion and Demeton-S. 2010 Aug; 109, (2): 548-557.   
Rec #: 4090  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: AbstractAims: The bacterial organophosphorus hydrolase (OPH) enzyme hydrolyses and detoxifies a broad range of toxic organophosphate pesticides and warfare nerve agents by cleaving the various phosphorus-ester bonds (P-O, P-F, P-CN, P-S); however, OPH hydrolyses these bonds with varying efficiencies. The aim of this study was to generate a variant OPH enzyme with improved hydrolytic efficiency against the poorly hydrolysed P-S class of organophosphates.Methods and Results: The gene encoding OPH was sequentially mutated at specific codons by saturation mutagenesis and screened for improved activity against the P-S substrates demeton-S methyl and malathion. Escherichia coli lysates harbouring the variants displayed up to 177- and 1800-fold improvement in specific activity against demeton-S methyl and malathion, respectively, compared to the wild-type lysates. The specificity constants of the purified variant proteins were improved up to 25-fold for demeton-S methyl and malathion compared to the wild-type. Activity was associated with organophosphate detoxification as the hydrolysed substrate lost the ability to inhibit acetylcholinesterase. The improved hydrolytic efficiency against demeton-S translated to the improved ability to hydrolyse the warfare agent VX.Conclusions: OPH variant enzymes were generated that displayed significantly improved ability to hydrolyse and detoxify organophosphates harbouring the P-S bond.Significance and Impact of the Study: The long-term goal is to generate an environmentally-friendly enzyme-mediated bioremediation approach for the removal of toxic organophosphate compounds in the environment.  
Keywords: Detoxification  
Keywords: nerve agents  
Keywords: A 01380:Plant Protection, Fungicides & Seed Treatments  
Keywords: Bioremediation  
Keywords: Biodegradation  
Keywords: Organophosphates  
Keywords: Acetylcholinesterase  
Keywords: J 02320:Cell Biology  
Keywords: Toxicology Abstracts; Biotechnology and Bioengineering Abstracts; Pollution Abstracts; Microbiology Abstracts B: Bacteriology; Water Resources Abstracts; Aqualine Abstracts; Microbiology Abstracts A: Industrial & Applied Microbiology  
Keywords: SW 3030:Effects of pollution  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Malathion  
Keywords: Organophosphorus Pesticides  
Keywords: Agricultural Chemicals  
Keywords: Escherichia coli  
Keywords: Substrates  
Keywords: X 24330:Agrochemicals  
Keywords: Pesticides (organophosphorus)  
Keywords: AQ 00008:Effects of Pollution  
Keywords: Enzymes  
Keywords: organophosphates  
Keywords: Saturation  
Keywords: Hydrolysis  
Keywords: hydrolase  
Keywords: saturation mutagenesis  
Keywords: W 30950:Waste Treatment & Pollution Clean-up  
Keywords: Pesticides  
Keywords: Codons  
Keywords: Proteins English. Date revised - 2010-08-01. Last updated - 2012-06-18. DOI - 103c6d22-e7cc-43d1-ae02csamfg201; 13363507; 1364-5072. SubjectsTermNotLitGenreText - Detoxification; nerve agents; Pesticides (organophosphorus); Bioremediation; Biodegradation; Acetylcholinesterase; Enzymes; organophosphates; Hydrolysis; Malathion; hydrolase; saturation mutagenesis; Codons; Organophosphates; Pesticides; Proteins; Organophosphorus Pesticides; Agricultural Chemicals; Escherichia coli; Substrates; Saturation

571. Selmi, S.; El-Fazaa, S., and Gharbi, N. Oxidative Stress and Cholinesterase Inhibition in Plasma, Erythrocyte and Brain of Rats' Pups Following Lactational Exposure to Malathion. 2012; 34, 753-760.   
Rec #: 1950  
Keywords: NO CONC  
Call Number: NO CONC (MLN)  
Notes: EcoReference No.: 162545  
Chemical of Concern: MLN

572. Sengupta, Dwaipayan; Aktar, Md Wasim; Alam, Samsul, and Chowdhury, Ashim. Impact Assessment and Decontamination of Pesticides From Meat Under Different Culinary Processes. 2010 Oct; 169, (1-4): 37-43.   
Rec #: 6830  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A total of 75 animals between 1.5 and 8 years old were randomly selected for the study. Of these, 57.8% were cross-bred animals and the rest were non-descript. Moreover, 61.8% of the animals under study were brought for slaughter from local sources and the rest from farm houses. Samples collected from five districts revealed contamination with traces of organochlorine pesticides (0.01-0.22 Î¼g g1) and organophosphorus pesticides (0.111-0.098 Î¼g g1). In general, all the raw meat samples possessed dichlorodiphenyltrichloroethane at the highest level. Contamination was highest in cow meat samples and lowest in chicken samples. No particular district-wise trend was obtained for the pesticides selected for analysis. Subsequent decontamination study revealed that cooking is the best option in reducing pesticide load in raw meat samples. Cooked chicken is the safest foodstuff for consumption. [PUBLICATION ABSTRACT]  
Keywords: Pesticides -- analysis  
Keywords: 8640:Chemical industry  
Keywords: Contamination  
Keywords: Dimethoate -- analysis  
Keywords: Meat -- analysis  
Keywords: Malathion  
Keywords: Risk Assessment  
Keywords: Environmental Studies  
Keywords: 1540:Pollution control  
Keywords: Food Contamination -- prevention & control  
Keywords: Hydrocarbons, Chlorinated  
Keywords: Food Safety -- methods  
Keywords: DDT -- analysis  
Keywords: Environmental monitoring  
Keywords: Agricultural chemicals  
Keywords: Food Contamination -- analysis  
Keywords: Environmental impact  
Keywords: Impact analysis  
Keywords: Lindane -- analysis  
Keywords: Studies  
Keywords: Lindane  
Keywords: 9130:Experimental/theoretical  
Keywords: Endosulfan  
Keywords: Meat  
Keywords: 8400:Agriculture industry  
Keywords: Malathion -- analysis  
Keywords: Hydrocarbons, Chlorinated -- analysis  
Keywords: Endosulfan -- analysis  
Keywords: DDT  
Keywords: Pesticides  
Keywords: Dimethoate English. Copyright - Springer Science+Business Media B.V. 2010. Last updated - 2013-02-24. DOI - 2136005571; 54321311; 108264; EVMT; 19757120; SPVLEVMT106611691-41148

573. Serra-Bonvehi, Josep; Orantes-Bermejo, Jose, and Serra-Bonvehi, Josep. Acaricides and Their Residues in Spanish Commercial Beeswax. 2010 Nov; 66, (11): 1230-1235.   
Rec #: 3950  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: BACKGROUND: The purpose of this work was to determine residues of acaricides in **recycled Spanish beeswax**. RESULTS: Chlorfenvinphos, fluvalinate, amitraz, bromopropylate, acrinathrin, flumethrin, coumaphos, chlorpyrifos, chlordimeform, endosulfan and malathion residues were determined by GC-?ECD/NPD/MS detection. Owing to the extreme instability of amitraz, this analyte was transformed into the stable end-metabolite 2,4-dimethylaniline, later derivatised with heptafluorobutyric anhydride and determined by GC- mu ECD/MS. Recoveries from spiked samples ranged from 86 to 108%, while quantification limits varied from 0.10 to 0.30 mg kg-1 using GC- mu ECD/NPD, and from 12 to 85 mu g kg-1 by GC-MSD. Of a total of 197 samples analysed, only eight samples (4%) were free of residues of chlorfenvinphos (0.019-10.6 mg kg-1), fluvalinate was present in 93.6% of samples analysed (0.027 -88.7 mg kg-1), while coumaphos was confirmed in only five of the 134 samples analysed at concentrations of less than 195 mu g kg-1. The remaining acaricides were identified with different levels of incidence at concentrations from 12 to 231 mu g kg-1. CONCLUSIONS: Residues of acaricides were found in an extensive number of beeswax samples. The contamination with chlorfenvinphos and tau-fluvalinate was very relevant, particularly as chlorfenvinphos is not legally authorised for use in beekeeping. **The possible impacts of the main acaricides detected on larval and adult honey bees are discussed.**  
Keywords: Contamination  
Keywords: Residues  
Keywords: Beeswax  
Keywords: Z 05350:Medical, Veterinary, and Agricultural Entomology  
Keywords: Larvae  
Keywords: Apis mellifera  
Keywords: Chlorfenvinphos  
Keywords: Pest control  
Keywords: acaricides  
Keywords: Entomology Abstracts; Environment Abstracts  
Keywords: Malathion  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Endosulfan  
Keywords: Chlorpyrifos  
Keywords: fluvalinate  
Keywords: Pesticides  
Keywords: Coumaphos  
Keywords: Acaricides English. Date revised - 2012-05-01. Last updated - 2012-08-24. DOI - cdf28ca0-85e3-4b82-8826csamfg201; 16710337; 1526-4998. SubjectsTermNotLitGenreText - Chlorpyrifos; fluvalinate; Contamination; Beeswax; Coumaphos; Pest control; Chlorfenvinphos; Acaricides; Malathion; Endosulfan; Residues; Pesticides; Larvae; acaricides; Apis mellifera

574. Sethunathan, N. Microbial Degradation of Insecticides in Flooded Soil and in Anaerobic Cultures. 1973; 47, 143-166.   
Rec #: 1190  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (CPY,DZ,MLN), NO REVIEW (CPY,DZ,MLN)  
Notes: Chemical of Concern: AND,CHD,CPY,DDE,DDT,DLD,DZ,EN,EPRN,HCCH,HPT,MLN,MXC,PPCP,PRN

575. Sharma, D K ; Sharma, R K; Sharma, Nisha; Gupta, Atul, and Sharma, D K. Development and Validation of a Spectrophotometric Method for Soil Adsorption Study of Malathion on Three Indian Soils. 2010 Nov; 92, (10): 1831-1840.   
Rec #: 3960  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In view of the widespread use of pesticides in agriculture and its associated toxic effects on environment and human beings, the fate of these chemicals in soil is of major concern. The pesticide adsorption process is one of the major factors affecting its persistence and movement in the soil. With a view of studying the fate of malathion in soil, the adsorption of this insecticide was studied on three Indian soils by using batch equilibrium method. To carry out the adsorption study, a new simple, sensitive, and rapid method was developed, based on microwave-assisted alkaline hydrolysis of insecticide to the dimethyl dithiophosphate and its subsequent reaction with copper(I) perchlorate in acetonitrile. On mixing the reagents, a yellow color developed, which was stable for 120 min and was measured at 419 nm. The adsorption of malathion was studied by using Freundlich's adsorption equation and nf values were observed less than 1 in all the soils. The leaching behavior of the insecticide was studied in terms of ground ubiquity score, which was below 1.8, classifying malathion as non-leacher pesticide, and hence it is not hazardous.  
Keywords: Agriculture  
Keywords: Mathematical models  
Keywords: Leaching  
Keywords: Hydrolysis  
Keywords: Malathion  
Keywords: Color  
Keywords: Soil  
Keywords: Insecticides  
Keywords: Pesticides  
Keywords: Adsorption  
Keywords: Spectrophotometry  
Keywords: Perchloric acid  
Keywords: Acetonitrile  
Keywords: X 24330:Agrochemicals  
Keywords: Toxicology Abstracts English. Date revised - 2011-03-01. Last updated - 2012-03-29. DOI - f0020063-5ae7-4590-9715csamfg201; 14138567; 0277-2248; 1029-0486. SubjectsTermNotLitGenreText - Agriculture; Leaching; Mathematical models; Hydrolysis; Malathion; Color; Soil; Insecticides; Pesticides; Adsorption; Spectrophotometry; Perchloric acid; Acetonitrile

576. Sharma, Deepti; Shardendu, Shardendu, and Sharma, Deepti. Assessing Farm-Level Agricultural Sustainability Over a 60-Year Period in Rural Eastern India. 2011 Sep; 31, (3): 325-337.   
Rec #: 6190  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Agricultural sustainability is a vital parameter to be ascertained locally and globally if food security is to be achieved and maintained. Agricultural sustainability is the combined product of social, economic and ecological sustainability. It is also a function of temporal and spatial variations, a fact which indicates that area-specific sustainability indices need to be designed. We present here an Agricultural Sustainability Index (ASI) for rural eastern India and use it to calculate the ASI for 150 farms for three decades over a 60-year period, viz., 1950-1960, 1980-1990 and 2000-2010 for a representative Indian village of Gangapur (25 degree 83'N, 85 degree 65'E). The ASI was calculated using 30 variables, 10 each of social, economic and ecological sustainability. An extensive questionnaire-based survey was carried out to collect the relevant data. Our study reveals that over a 60-year period, ASI values do not show a statistically significant change. We conclude that the agricultural practices of the region have maintained sustainability so far although the scope for improvement in several broad areas identified by us is immense. Increased ecological literacy and better implementation of government policies, aiming at health, education and better scientist-farmer interactions, must target improved ASI values in coming decades.  
Keywords: M3 1010:Issues in Sustainable Development  
Keywords: Environment Abstracts; Sustainability Science Abstracts  
Keywords: ENA 04:Environmental Education  
Keywords: Environmental Studies English. Date revised - 2012-01-01. Last updated - 2012-08-02. DOI - OB-23b3b785-6dfb-4571-85d3mfgefd101; 15454130; 0251-1088; 1573-2991

577. Shayeghi, M; Dehghani, M H; Fadaei, a M, and Shayeghi, M. Removal of Malathion Insecticide Fromwater by Employing Acoustical Wave Technology. 2011; 40, (4): 122.   
Rec #: 3750  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organophosphorus pesticides are one of the most prevalent usages for pest control in the country. Such pesticides enter into water sources by different routes. Since drinking of contaminated water at the higher doses than the standard level, may causes undesirable effects to human health and ecosystem. The object of this research was to investigate the effect of various parameters including time, power and concentration on sonodecomposition of malathion insecticide in the water. The sonochemical degradation of malathion was investigated using acoustic wave technology (AWT). AWT with 130 kHz was used to study the decomposition of insecticide solution. Samples were analyzed using HPLC at different intervals times. Effectiveness of AWT at different times (20, 40, 60, 80, 100, and 120 minutes), concentrations of malathion at 2, 4 and 8 mg/L as well as powers of device (300W, 400W, 500W) are compared. These findings showed that the degradation of the malathion insecticide at lower concentrations was greater in comparison to higher concentrations. Also, there was positive correlation between power increasing and the ability to malathion degradation The sonodegradation of malathion at different concentrations and powers was successfully achieved. It has been shown that acoustical wave technology can be used to reduce the concentration of dissolved insecticide using high frequency.  
Keywords: Insecticides  
Keywords: Degradation  
Keywords: Acoustics  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Pesticides  
Keywords: Pest control  
Keywords: Pollution Abstracts  
Keywords: Decomposition  
Keywords: Water pollution  
Keywords: Malathion  
Keywords: Technology English. Date revised - 2012-06-01. Number of references - 46. Last updated - 2012-09-10. DOI - 5b79f9c7-ad12-40f5-8117mfgefd108; 16782023; 0304-4556. SubjectsTermNotLitGenreText - Insecticides; Degradation; Acoustics; Pesticides; Pest control; Decomposition; Water pollution; Malathion; Technology. American Public Health Association; Greenberg, A E. Standard methods for the examination of water and wastewater. Standard methods for the examination of water and wastewater. (1985). Arrojo, S.; Benito, Y. A theoretical study of hydrodynamic cavitation. ULTRASONICS SONOCHEMISTRY, 15. 3 (2008): 203-211. ELSEVIER SCIENCE BV. Asakura, Yoshiyuki; Nishida, Tomoyuki; Matsuoka, Tatsuro; Koda, Shinobu. Effects of ultrasonic frequency and liquid height on sonochemical efficiency of large-scale sonochemical reactors. ULTRASONICS SONOCHEMISTRY, 15. 3 (2008): 244-250. ELSEVIER SCIENCE BV. Bachman, John; Patterson, Howard H. 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Elsevier Science Publishing Co , Inc , P.O. Box 882, Madison Square Station, New York, NY, 10159-0882, USA, [mailto:usinfo-f@elsevier.com], [URL:http://www.elsevier.com]. Benito, Y, Arrojo, S 2005 "Hydrodynamic Cavitation as a low-cost AOP for wastewater treatment: preliminary results and a new design approach" Water Resources Management III 495-503. Bhattacharya, A; Raha, P; Das, A K; ADITYACHAUDHURY, N. STUDIES ON THE PHOTODEGRADATION OF CARBOFURAN. CHEMOSPHERE, 29. 2 (1994): 155-162. PERGAMON-ELSEVIER SCIENCE LTD. Boisdon V, Cacite de la E (1995) Disinfection par les proce de s d'oxydation chimique et de rayonnement ultraviolet. Tech Sci Meth. 3: 228-236. BOURGINE, F.P.; CHAPMAN, J.I.; KERAI, H. The degradation of atrazine and other pesticides by photolysis. Journal of the Institution of Water and Environmental Management, 9. 4 (1995): 417-423. Institution of Water and Environmental Management. Dehghani, M H; Jahed, G; Vaezi, F. 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578. Sheftall, William II. New Information on Pesticides in Aquatic Systems. 2008; 32, 3-4.   
Rec #: 11290  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Internet resource  
Number of Volumes: 10  
Includes references 1022983745 http://www.lsuagcenter.com/NR/rdonlyres/47DD098C-C25A-416F- 96B5-671B36AFC520/52631/LagniappeNov08.pdf

579. Shi, Rongguang; Lv, Jungang; Feng, Jimin, and Lv, Jungang. Assessment of Pesticide Pollution in Suburban Soil in South Shenyang, China. 2011 Nov; 87, (5): 567-573.   
Rec #: 6070  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this study, 35 representative farmland soil samples from suburban areas in south Shenyang, the capital city in Liaoning province, China, were collected to evaluate the pollution of 114 pesticides. Surface soil samples were air-dried and sieved. Ultrasonic extraction was used for pesticides preparation prior to analysis with gas chromatography-mass spectrometry. The total concentrations of tested pesticides in the area ranged in 0-51.32 ng/g and the average of concentrations was 6.86 ng/g. Six pesticides, including butachlor(with detect frequency 71.4%), p,p'-DDE (88.6%), p,p'-DDT (77.1%), o,p'-DDD (82.9%), hexachlorobenzene (88.6%) and delta -HCB (77.1%), were detected most frequently. It indicated that DDTs (N.D.-40.25 ng/g) and HCHs (N.D.-42.79 ng/g) were the predominant pesticide pollutants in soil because of their long term persistence. On the contrary, most of organophosphorus pesticides, pyrethroids and carbamates were not detected. Spatial variation of six pesticides with high detection frequency (>70%) in soil was illustrated. Pollution levels, characteristics and the possible sources were also discussed. The data were helpful to figure out the pollution of the pesticides and could be further used to evaluate the health risk associated with food safety.  
Keywords: Risk assessment  
Keywords: P 5000:LAND POLLUTION  
Keywords: Food  
Keywords: Mass spectroscopy  
Keywords: Pollution Abstracts; Environment Abstracts; Toxicology Abstracts  
Keywords: Environmental Studies  
Keywords: Soil  
Keywords: spatial distribution  
Keywords: spatial variations  
Keywords: Pollutants  
Keywords: Gas chromatography  
Keywords: Pesticide pollution  
Keywords: Pyrethroids  
Keywords: X 24330:Agrochemicals  
Keywords: Pesticides (organophosphorus)  
Keywords: pollution levels  
Keywords: Data processing  
Keywords: Pollution levels  
Keywords: agricultural land  
Keywords: Pesticides (carbamates)  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Spectrometry  
Keywords: Ultrasonics  
Keywords: Pesticides  
Keywords: hexachlorocyclohexane  
Keywords: DDT  
Keywords: China, People's Rep., Liaoning Prov.  
Keywords: Hexachlorobenzene English. Date revised - 2012-01-01. Last updated - 2012-01-26. DOI - OB-37556e2d-92e7-4b8e-9a0fmfgefd107; 15838306; 0007-4861; 1432-0800. SubjectsTermNotLitGenreText - Pesticides (organophosphorus); Data processing; Food; Pollution levels; Pesticides (carbamates); Mass spectroscopy; Soil; spatial variations; Pollutants; Ultrasonics; Gas chromatography; Pesticide pollution; DDT; Pyrethroids; Hexachlorobenzene; Risk assessment; spatial distribution; pollution levels; hexachlorocyclohexane; Pesticides; agricultural land; Spectrometry; China, People's Rep., Liaoning Prov.

580. Shimoda, T.; Yara, K., and Kawazu, K. The Effects of Eight Insecticides on the Foraging Behavior of the Parasitoid Wasp Cotesia vestalis. 2011; 6, (2/3): 189-190.   
Rec #: 1830  
Keywords: NO CONC  
Call Number: NO CONC (DZ,EFX,MLN,MOM,PMR)  
Notes: Chemical of Concern: CTD,DZ,EFX,EMMB,MLN,MOM,PMR

581. Sieck, R. F.; Johnson, W. S.; Cockerill, A. F.; Mallen, D. N. B.; Osborne, D. J., and Barton, S. J. Gas Chromatographic Analysis of Oryzalin Residues in Agricultural Crops and Soil. SOIL; 1976; 24, (3): 617-620.   
Rec #: 860  
Keywords: CHEM METHODS  
Call Number: NO CHEM METHODS (ACR,AZ,CBL,Captan,DCPA,DS,DZ,LNR,MLN,OYZ,TFN)  
Notes: Chemical of Concern: ACR,AZ,CBL,Captan,DCPA,DDT,DS,DZ,LNR,MLN,MXC,NPM,OYZ,TFN,TXP,VNT

582. Singh, B; Dogra, T D, and Singh, B. Rapid Method for the Determination of Some Organophosphorus Insecticides in a Small Amount of Serum in Emergency and Occupational Toxicology Cases. 2009 Aug; 13, (2): 84-87.   
Rec #: 4800  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A simple and rapid method is described for the estimation of some organophosphorus insecticides in the serum of occupationally exposed persons. The compounds are extracted with a mixture of acetone and diethyl ether (1:1 v/v) in acidic medium and the extraction residue is analyzed by gas chromatography with nitrogen phosphorus detection method. Linearity was acceptable over concentrations from 0.25 to 4.0 kg/mL. The method percentile recovery for the six different organophosphorus insecticides was 86.3% for phorate, 78.3% for dimethoate, 82.3% for malathion, 79.4% for chlorpyrifos, 80.2% for diazinon, and 68.5% for ethion at the kg/mL level. Serum samples of nine workers who had been occupationally exposed to malathion in an insecticide manufacturing factory, were analyzed and malathion was found at low levels in all the samples.  
Keywords: acetone  
Keywords: Organophosphorus compounds  
Keywords: Residues  
Keywords: phorate  
Keywords: Phosphorus  
Keywords: H 1000:Occupational Safety and Health  
Keywords: Malathion  
Keywords: Chlorpyrifos  
Keywords: Toxicology Abstracts; Health & Safety Science Abstracts  
Keywords: Factories  
Keywords: Insecticides  
Keywords: Gas chromatography  
Keywords: Pesticides  
Keywords: Dimethoate  
Keywords: Acetone  
Keywords: Phosphorus compounds  
Keywords: Ethers  
Keywords: X 24330:Agrochemicals  
Keywords: Diazinon  
Keywords: dimethoate  
Keywords: Toxicology  
Keywords: Occupational exposure  
Keywords: Nitrogen English. Date revised - 2009-11-01. Last updated - 2012-03-29. DOI - MD-0010891971; 11148548; 0973-2284. SubjectsTermNotLitGenreText - Chlorpyrifos; Insecticides; Gas chromatography; phorate; Phosphorus; Dimethoate; Acetone; Ethers; Diazinon; Malathion; Nitrogen; acetone; Organophosphorus compounds; Residues; Factories; Pesticides; Phosphorus compounds; dimethoate; Occupational exposure; Toxicology

583. Singh, B.; Kaur, J., and Singh, K. Biodegradation of malathion by Brevibacillus sp strain KB2 and Bacillus cereus strain PU. 2012; 28, 1133-1141.   
Rec #: 15870  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: We report here the degradation of a pesticide, malathion, by Brevibacillus sp. strain KB2 and Bacillus cereus strain PU, isolated from soil samples collected from malathion contaminated field and an army firing range respectively. Both the strains were cultured in the presence of malathion under aerobic and energy-limiting conditions. Both strains grew well in the medium having malathion concentration up to 0.15%. Reverse phase HPLC-UV analysis indicated that Strain KB2 was able to degrade 72.20% of malaoxon (an analogue of malathion) and 36.22% of malathion, while strain PU degraded 87.40% of malaoxon and 49.31% of malathion, after 7 days of incubation. The metabolites mal-monocarboxylic acid and mal-dicarboxylic acid were identified by Gas chromatography/mass spectrometry. The factors affecting biodegradation efficiency were investigated and effect of malathion concentration on degradation rate was also determined. The strain was analyzed for carboxylesterase activity and maximum activity 210 +/- A 2.5 U ml(-1) and 270 U +/- A 2.7 ml(-1) was observed for strains KB2 and PU, respectively. Cloning and sequencing of putative malathion degrading carboxylesterase gene was done using primers based PCR approach.  
Number of Volumes: 3  
ISI Document Delivery No.: 892MN <Go to ISI>://CCC:000300290400040

584. Singh, B.; Kaur, J., and Singh, K. Transformation of Malathion by Lysinibacillus Sp. Isolated From Soil.   
Rec #: 8630  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: An axenic bacterial strain, Lysinibacillus sp. KB1, was isolated from malathion-contaminated soil. It tolerated malathion up to 0.15&nbsp;% and, under aerobic conditions, utilized it as sole carbon source. 20&nbsp;% malathion and 47&nbsp;% malaoxon were degraded out of the initially provided malathion. Two metabolites, mal-monocarboxylic acid and mal-dicarboxylic acid, were detected within 7&nbsp;days at 30&nbsp;&deg;C. Esterase activity of the strain was 240&nbsp;&plusmn;&nbsp;2.5&nbsp;U/ml after 7&nbsp;days of growth. Sterilized soil mixed with malathion showed rapid degradation of malathion when inoculated with strain KB1 as compared to the uninoculated soil.  
MESH HEADINGS: Aerobiosis  
MESH HEADINGS: Bacillaceae/\*isolation &amp  
MESH HEADINGS: purification/\*metabolism/physiology  
MESH HEADINGS: Biodegradation, Environmental  
MESH HEADINGS: Biotransformation  
MESH HEADINGS: Carbon/metabolism  
MESH HEADINGS: Malathion/analogs &amp  
MESH HEADINGS: derivatives/\*metabolism  
MESH HEADINGS: \*Soil Microbiology eng

585. Singh, D. and Singh, H. Efficacy of Various Insecticidal Combinations for the Control of Amrasca biguttula biguttula (Ishida) and Earias spp. and Their Influence on Yield of Vegetable and Seed Crops of Okra. 1991; 4, (1): 54-60.   
Rec #: 320  
Keywords: MIXTURE  
Call Number: NO MIXTURE (CBF,CYP,DM,DMT,ES,FNV,MLN,PMR,PRT,TAUF)  
Notes: Chemical of Concern: ACYP,CBF,CYP,DM,DMT,ES,FNV,FVL,MLN,PMR,PRT

586. Singh, K. J. and Singh, O. P. Chemical Control of the Blue Beetle, Cheorane sp. and Gray Semilooper Rivula sp. on Soybean in Madhya Pradesh. SOIL; 1988; 22, (6): 29-31.   
Rec #: 330  
Keywords: NO CONC  
Call Number: NO CONC (ES,FNV,MLN)  
Notes: Chemical of Concern: EPRN,ES,FNV,MLN,PRN

587. Singh, S. and Sahai, S. Effect of Malathion on the Immature Ovary of Rasbora daniconius - A Histopathological Study. 1178//: 1985; 6, (1-2): 11-15.   
Rec #: 870  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

588. Singh, S. B.; Mukherjee, I.; Maisnam, J.; Kumar, P.; Gopal, M., and Kulshrestha, G. Determination of Pesticide Residues in Integrated Pest Management and Nonintegrated Pest Management Samples of Apple (Malus pumila Mill.). 2009; 57, 11277-11283.   
Rec #: 15900  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Studies were undertaken to analyze the residues of commonly used pesticides viz. chlorpyrifos, endosulfan, dicofol, cypermethrin, fenvalerate, propargite, malathion, phorate, carbendazim, carbosulfan, thiamethoxam, and mancozeb in apple of integrated pest management (IPM) and non-IPM samples collected from the IPM and non-IPM fields of Shimla. We also present a method for the determination of these pesticides in apple samples. Residues of chlorpyrifos, endosulfan, dicofol, cypermethrin, fenvalerate, and propargite were analyzed by gas chromatography, while residues of carbendazim, carbosulfan, and thiamethoxam were analyzed by high-performance liquid chromatography. Residues of mancozeb were determined by a colorimetric method. Recoveries of all of the pesticides ranged from 61.30 to 95.46% at 0.1, 0.2, and 1.0 mu g g(-1) levels of fortification with relative standard deviations ranging between 0.8 and 8.7. Apples from IPM and non-IPM orchards were analyzed for these pesticides using a developed method. Except for carbendazim and chlorpyrifos, the residues of all of the pesticides analyzed were below detectable limits. Although residues of carbendazim and chlorpyrifos were below the prescribed limits of maximum residue levels in both IPM and non-IPM orchards, residues were lower in apples from IPM orchards.  
Number of Volumes: 23  
ISI Document Delivery No.: 525BO <Go to ISI>://CCC:000272188300031

589. Singh, Satyender; Kumar, Vivek; Thakur, Sachin; Banerjee, Basu Dev; Chandna, Sudhir; Rautela, Rajender Singh; Grover, Shyam Sunder; Rawat, Devendra Singh; Pasha, Syed Tazeen; Jain, Sudhir Kumar; Ichhpujani, Rattan Lal; Rai, Arvind, and Jain, Sudhir Kumar. Dna Damage and Cholinesterase Activity in Occupational Workers Exposed to Pesticides. 2011 Mar; 31, (2): 278-285.   
Rec #: 3570  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The present study was designed to evaluate genotoxicity, acetyl cholinesterase (AChE) activity, hepatic and renal toxicity in occupational workers exposed to mixture of pesticides (n =70) with same number of healthy subjects as controls. The mean comet tail DNA % (TD %) and tail moment (TM) were used to measure DNA damage, while AChE activity and other biochemical parameters such as markers of nephrotoxicity (urea and creatinine) and hepatotoxicity (AST, ALT and ALP) were measured as biomarkers for toxicity due to exposure of pesticides. The occupational workers were continuously exposed to mixture of pirimiphos methyl, chlorpyrifos, temephos and malathion on a regular interval as per usage and activity. The comet assay using lymphocytes of exposed workers showed significantly higher TD percentage value (60.43% vs. 31.86%, p <0.001) and TM value (14.48 mu m vs. 6.42 mu m, p <0.001) in occupational workers as compared to controls. AChE activity in erythrocytes was found to be decreased (3.45KAU/L vs. 9.55KAU/L in controls, p <0.001) and associated with the duration of exposure to pesticides used by the workers. Enzyme levels for hepatic and renal functions were also found significantly different in occupational workers than healthy controls (p <0.001). These results suggest that the exposure to mixture of pirimiphos methyl, chlorpyrifos, temephos and malathion may induce DNA damage, decrease in AChE activity, hepatotoxicity as well as nephrotoxicity. Periodic biomonitoring of these biomarkers along with imparting education and training to occupational workers for safe application of pesticides is recommended for its potential hazards.  
Keywords: Erythrocytes  
Keywords: Urea  
Keywords: Lymphocytes  
Keywords: Cholinesterase  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Malathion  
Keywords: Workers  
Keywords: Renal function  
Keywords: biomonitoring  
Keywords: X 24330:Agrochemicals  
Keywords: Occupational exposure  
Keywords: Bioindicators  
Keywords: Tails  
Keywords: Genotoxicity  
Keywords: N 14820:DNA Metabolism & Structure  
Keywords: Enzymes  
Keywords: H 1000:Occupational Safety and Health  
Keywords: Toxicity  
Keywords: biomarkers  
Keywords: hepatotoxicity  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Toxicology Abstracts; Biochemistry Abstracts 2: Nucleic Acids; Environment Abstracts; Health & Safety Science Abstracts; Pollution Abstracts  
Keywords: Chlorpyrifos  
Keywords: DNA damage  
Keywords: Creatinine  
Keywords: Pesticides  
Keywords: DNA  
Keywords: Liver  
Keywords: Comet assay English. Date revised - 2011-05-01. Last updated - 2012-03-29. DOI - 3e6d152b-1374-40d7-8942csamfg201; 14514014; 1382-6689. SubjectsTermNotLitGenreText - Tails; Genotoxicity; Erythrocytes; Enzymes; Urea; Lymphocytes; Cholinesterase; biomarkers; Malathion; hepatotoxicity; Chlorpyrifos; DNA damage; Workers; Creatinine; Renal function; Pesticides; Liver; biomonitoring; Comet assay; Occupational exposure; Bioindicators; DNA; Toxicity

590. Singh, Vinay K; Singh, Ravi S; Tiwari, Prem N; Singh, Jai K; Gode, Fethiye; Sharma, Yogesh C, and Singh, Vinay K. Removal of Malathion From Aqueous Solutions and Waste Water Using Fly Ash. 2010 Apr; 2, (4): 322.   
Rec #: 4260  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Fly ash, obtained from a thermal power plant, Anpara, Sonebhadra, India has been used as an effective adsorbent for the removal of malathion from aqueous solutions. The time required to attain equilibrium was found to increase from 40 to 60 minutes as the initial malathion concentration increases from 1 to 10 mg/L. The optimum pH value for adsorption was 4.50. The removal of malathion increased by increasing the temperature indicating endothermic nature of removal process. The fly ash exhibited first order rate kinetics and followed both Langmuir and Freundlich isotherm models. Endothermic nature of adsorption process was further supported from increasing values of Langmuir and Freundlich constants with increase in temperature. The adsorbent can be used as an economical product for the removal of malathion from wastewater also. A comparison of the adsorption capacity of fly ash with other adsorbents shows that fly ash can be used for the removal of malathion from aqueous solutions.  
Keywords: SW 3040:Wastewater treatment processes  
Keywords: Thermal Power  
Keywords: Temperature  
Keywords: Adsorbents  
Keywords: Fly ash  
Keywords: Malathion  
Keywords: India  
Keywords: Fly Ash  
Keywords: Kinetics  
Keywords: Economics  
Keywords: Adsorption  
Keywords: Power plants  
Keywords: AQ 00002:Water Quality  
Keywords: Isotherms  
Keywords: Wastewater  
Keywords: Aqualine Abstracts; Water Resources Abstracts  
Keywords: pH English. Date revised - 2010-09-01. Last updated - 2012-03-29. DOI - 4a15050e-708e-4634-a3b4mfgefd101; 13651715; 1945-3108. SubjectsTermNotLitGenreText - Kinetics; Economics; Power plants; Temperature; Adsorption; Fly ash; pH; Wastewater; Malathion; Fly Ash; Thermal Power; Adsorbents; Isotherms; India

591. Singhai, R and Singhai, R. Remediation of Malathion Contaminated Soil Using Iron Nanoparticle. 2010 Mar 1.  
Rec #: 4340  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Soil pollution  
Keywords: Bioremediation  
Keywords: Soil contamination  
Keywords: U 4300:Environmental Science  
Keywords: Nanoparticles  
Keywords: Iron  
Keywords: Malathion  
Keywords: Pollution control English. Date revised - 2010-04-06. Last updated - 2010-05-03. DOI - CPI-5645845; 5645845

592. Sinha, Sukesh Narayan; Bhatnagar, V. K.; Doctor, Pankaj; Toteja, G. S.; Agnihotri, N. P., and Kalra, R. L. A novel method for pesticide analysis in refined sugar samples using a gas chromatographyÇômass spectrometer (GCÇôMS/MS) and simple solvent extraction method. 2011 May 1-; 126, (1): 379-386.   
Rec #: 1580  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: A sensitive method for the quantification of 11 pesticides in sugar samples to the ++g kg êÆ1 level has been developed. These pesticides are often used in an agricultural context. A simple solvent extraction followed by selective analysis using a gas chromatographyÇômass spectrometric method was used. This method was accurate (\_+99%) as it possesses limits of detection in the 0.1-++g kgêÆ1 range, and the coefficients of variations are less than 15% at the low ++g kgêÆ1 end of the methodÇÖs linear range. The percent recovery of all the pesticides at the lowest levels of detection ranges from 82% to 104%. This method was used for the quantification of pesticides in sugar samples collected from different factory outlets from different parts of India. In this study, 27 refined sugar samples were analysed in which one sample showed a detectable level of the chlorpyrifos pesticide. This study showed that Indian sugar is free from the commonly-used pesticides at the low ++g kgêÆ1 levels. Refined sugar/ GCÇôMS/MS/ Solvent extraction/ Pesticides http://www.sciencedirect.com/science/article/pii/S0308814610014020

593. Skopichev, V. G. and Smirnova, O. O. [Echinocytosis and Changes of Medium Weight Molecules Content in Endo- and Exogenous Intoxications].   
Rec #: 9470  
Keywords: NON-ENGLISH  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: The purpose of this study was to detect the interrelationship between the increased serum concentration of the medium weight molecules (MWM) and echinocytosis, to establish the rate of echinocyte appearance in blood in endogenous and exogenous intoxications and the dependence of echinocytosis on phosphacol and carbophos doses or the degree of endogenous intoxication. Two series of studies were conducted. In the 1st series, the experiments were conducted on outbred albino rats. Rats of the 1st group received phosphacol in doses equal to 0.5, 5.0 and 50 LD50, while the rats of the 2nd group were given carbophos in doses equal to 0.1 and 1.0 LD50. In the 2nd series, the blood of cats with chronic renal failure at uremic stage was studied (as an example of endogenous intoxication). In all the animals, serum MWM concentrations were measured together with the relative echinocyte content and echinocytes were examined with electrone microscope. The ability of MWM to influence erythrocyte deformation was evaluated. Increased MWM concentrations and echinocyte content was found in association with the increase of intoxication severity, while echinocyte percentage in cats' blood was augmented under the action of MWM.  
MESH HEADINGS: Animals  
MESH HEADINGS: Cats  
MESH HEADINGS: Cholinesterase Inhibitors/\*adverse effects/pharmacology  
MESH HEADINGS: \*Erythrocytes, Abnormal/metabolism/ultrastructure  
MESH HEADINGS: Malathion/\*adverse effects/pharmacology  
MESH HEADINGS: Male  
MESH HEADINGS: Paraoxon/\*adverse effects/pharmacology  
MESH HEADINGS: \*Poisoning/blood/pathology  
MESH HEADINGS: Rats rus

594. Slager, R. E.; Simpson, S. L.; LeVan, T. D.; Poole, J. A.; Sandler, D. P., and Hoppin, J. A. Rhinitis Associated with Pesticide Use Among Private Pesticide Applicators in the Agricultural Health Study. 2010; 73, 1382-1393.   
Rec #: 15910  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Farmers commonly experience rhinitis but the risk factors are not well characterized. The aim of this study was to analyze cross-sectional data on rhinitis in the past year and pesticide use from 21,958 Iowa and North Carolina farmers in the Agricultural Health Study, enrolled 1993-1997, to evaluate pesticide predictors of rhinitis. Polytomous and logistic regression models were used to assess association between pesticide use and rhinitis while controlling for demographics and farm-related exposures. Sixty-seven percent of farmers reported current rhinitis and 39% reported 3 or more rhinitis episodes. The herbicides glyphosate [odds ratio (OR) = 1.09, 95% confidence interval (95% CI) = 1.05-1.13] and petroleum oil (OR = 1.12, 95% CI = 1.05-1.19) were associated with current rhinitis and increased rhinitis episodes. Of the insecticides, four organophosphates (chlorpyrifos, diazinon, dichlorvos, and malathion), carbaryl, and use of permethrin on animals were predictors of current rhinitis. Diazinon was significant in the overall polytomous model and was associated with an elevated OR of 13+ rhinitis episodes (13+ episodes OR = 1.23, 95% CI = 1.09-1.38). The fungicide captan was also a significant predictor of rhinitis. Use of petroleum oil, use of malathion, use of permethrin, and use of the herbicide metolachlor were significant in exposure-response polytomous models. Specific pesticides may contribute to rhinitis in farmers; agricultural activities did not explain these findings.  
Number of Volumes: 20  
ISI Document Delivery No.: 647GM <Go to ISI>://CCC:000281606400004

595. Slauter, R. W. 18-Month Oral (Dietary) Oncogenicity Study in Mice, Test Substance Malathion. 1994.  
Rec #: 880  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

596. Smee, Delbert; Wendel, C, and Smee, Delbert. Ambient Malathion Concentrations Increase Mortality and Modify Behavior of Blue Crabs. 2010 Mar 10.  
Rec #: 4280  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Mortality  
Keywords: U 2000:Biological Sciences  
Keywords: Crustacea  
Keywords: Callinectes sapidus  
Keywords: Malathion English. Date revised - 2010-05-17. Last updated - 2010-08-14. DOI - CPI-5705979; 5705979

597. Smith, Whitney and Blank, C. LeRoy Ketchum Heather. Effects of Insecticides on Postmortem Interval: Implications for Forensic Investigations. 2011.  
Rec #: 8030  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Postmortem interval (PMI) is the length of time that occurs between death of a person and the subsequent discovery of the body. PMI can be determined in a variety of ways depending on how long the body has been exposed to the environment. Forensic entomologists can use the identity and growth stages of insects to determine the PMI. During the initial stages of decomposition, the primary insects to attack the body are blow flies and flesh flies. The abundance and age of the fly larvae are used to calculate the PMI according to established life cycle times for each species. Several factors can alter the apparent PMI via alterations in the insect activity. These factors include temperature, humidity, sunlight, and chemicals present in or on the body. This research focused on the alteration of PMI by insecticides applied to the body after death. Readily available insecticides were chosen from three classes of pesticides: malathion, an organophosphate; carbaryl, a carbamate; and permethrin, a pyrethroid. Pig carcasses were coated with a 0.5% solution of one of the three pesticides and placed in a remote site protected from predation. The pigs were monitored daily for the appearance of fly larvae. Larvae were collected and analyzed by GC/MS for the presence of the insecticides. The insecticides deterred the arrival of flies in the following decreasing potency: permethrin, carbaryl, and malathion.  
Start Page: 176  
ISSN/ISBN: 9781124637754  
Keywords: Postmortem interval  
Keywords: Insecticides  
Keywords: Biochemistry  
Keywords: Forensic investigations  
Keywords: 0353:Entomology  
Keywords: Fresh flies  
Keywords: 0487:Biochemistry  
Keywords: Blow flies  
Keywords: Biological sciences  
Keywords: Pure sciences  
Keywords: Entomology  
Keywords: Insects English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2011. Last updated - 2012-06-29. DOI - 2365234701; 61733891; 66569; 9781124637754; 3454421. First page - n/a

598. Sobhanzadeh, Elham; Abu Bakar, nor Kartini; Abas, Mhd Radzi Bin; Nemati, Keivan, and Sobhanzadeh, Elham. Low Temperature Followed by Matrix Solid-Phase Dispersion-Sonication Procedure for the Determination of Multiclass Pesticides in Palm Oil Using Lc-Tof-Ms. 2011 Feb 28; 186, (2-3): 1308-1313.   
Rec #: 3620  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A simple and effective multiresidue method based on precipitation at low temperature followed by matrix solid-phase dispersion-sonication was developed and validated to determine dimethoate, malathion, carbaryl, simazine, terbuthylazine, atrazine and diuron in palm oil using liquid chromatography time-of-flight mass spectrometry (LC-TOF-MS). Liquid-liquid extraction (LLE) followed by low temperature method were optimized by studying the effect of type and volume of organic solvent (acetonitrile, acetonitrile:n-hexane (3:2 v/v) and acetone) and time of freezing to obtain high recovery yield and low co-extract fat residue in the final extract. The optimal conditions for matrix solid-phase dispersion (MSPD) were obtained using 5g of palm oil, 2g of primary secondary amine (PSA) as dispersing sorbent, 1g of graphitized carbon black (GCB) as clean-up sorbent and 15mL of acetonitrile as eluting solvent under conditions of 15min ultrasonication at room temperature. Method validation was performed in order to study sensitivity, linearity, precision, and accuracy. Average recoveries at three concentration levels (25, 50 and 100 mu gkg super(-1)) were found in the range of 72.6-91.3% with relative standard deviations between 5.3% and 14.2%. Detection and quantification limits ranged from 1.5 to 5 mu gkg super(-1) and from 2.5 to 9 mu gkg super(-1), respectively.  
Keywords: acetone  
Keywords: ENA 09:Land Use & Planning  
Keywords: Carbaryl  
Keywords: Malathion  
Keywords: Mass spectroscopy  
Keywords: Oil  
Keywords: amines  
Keywords: simazine  
Keywords: Sorbents  
Keywords: Carbon  
Keywords: Toxicology Abstracts; Environment Abstracts  
Keywords: X 24330:Agrochemicals  
Keywords: Temperature effects  
Keywords: Diuron  
Keywords: Temperature  
Keywords: Solvents  
Keywords: Freezing  
Keywords: Herbicides  
Keywords: Precipitation  
Keywords: Standard deviation  
Keywords: Liquid chromatography  
Keywords: Engineering--Chemical Engineering  
Keywords: Atrazine  
Keywords: Pesticides  
Keywords: low temperature  
Keywords: Dimethoate  
Keywords: Acetone  
Keywords: Acetonitrile English. Date revised - 2011-10-01. Last updated - 2011-12-13. DOI - OB-c49ac3ca-c21e-4573-a34bcsamfg201; 14513488; 0304-3894. SubjectsTermNotLitGenreText - Temperature effects; Diuron; Freezing; Solvents; Carbaryl; Precipitation; Malathion; Mass spectroscopy; Oil; amines; simazine; Carbon; Standard deviation; Liquid chromatography; Pesticides; Atrazine; Acetone; Dimethoate; Acetonitrile; acetone; Sorbents; Temperature; low temperature; Herbicides

599. Sobhanzadeh, Elham; Abu Bakar, nor Kartini; Bin Abas, Mhd Radzi; Nemati, Keivan, and Sobhanzadeh, Elham. A Simple and Efficient Multi-Residue Method Based on Quechers for Pesticides Determination in Palm Oil by Liquid Chromatography Time-of-Flight Mass Spectrometry. 2012 Sep; 184, (9): 5821-5828.   
Rec #: 2530  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this study, a rapid, specific and sensitive multi-residue method based on acetonitrile extraction followed by dispersive solid-phase extraction (d-SPE) clean-up was implemented and validated for multi-class pesticide residues determination in palm oil for the first time. Liquid-liquid extraction followed by low-temperature precipitation procedure was evaluated in order to study the freezing-out clean-up efficiency to obtain high recovery yield and low co-extract fat residue in the final extract. For clean-up step, d-SPE was carried out using a combination of anhydrous magnesium sulphate (MgSO sub(4)), primary secondary amine, octadecyl (C sub(18)) and graphitized carbon black. Recovery study was performed at two concentration levels (10 and 100 ng g super(-1)), yielding recovery rates between 74.52% and 97.1% with relative standard deviation values below 10% (n=6) except diuron. Detection and quantification limits were lower than 5 and 9 ng g super(-1), respectively. In addition, soft matrix effects ( less than or equal to plus or minus 20%) were observed for most of the studied pesticides except malathion that indicated medium (20-50%) matrix effects. The proposed method was successfully applied to the analysis of suspected palm oil samples.  
Keywords: Sulfates  
Keywords: Black carbon  
Keywords: Diuron  
Keywords: Pesticide residues  
Keywords: ENA 09:Land Use & Planning  
Keywords: Mass spectrometry  
Keywords: Amines  
Keywords: Malathion  
Keywords: Environmental Studies  
Keywords: Oil  
Keywords: P 9999:GENERAL POLLUTION  
Keywords: Liquid chromatography  
Keywords: Pollution Abstracts; Environment Abstracts English. Date revised - 2012-11-01. Last updated - 2012-12-06. DOI - OB-fe904abb-3427-492d-a4d6mfgefd107; 17133910; 0167-6369; 1573-2959. SubjectsTermNotLitGenreText - Sulfates; Oil; Black carbon; Diuron; Liquid chromatography; Pesticide residues; Mass spectrometry; Amines; Malathion

600. Soisungnoen, Phimpha; Burakham, Rodjana; Srijaranai, Supalax, and Soisungnoen, Phimpha. Determination of Organophosphorus Pesticides Using Dispersive Liquid-Liquid Microextraction Combined With Reversed Electrode Polarity Stacking Mode-Micellar Electrokinetic Chromatography. 2012 Aug 30; 98, 62-68.   
Rec #: 2570  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A rapid and sensitive method using two preconcentration techniques, dispersive liquid-liquid microextraction (DLLME) followed by reversed electrode polarity stacking mode (REPSM) was developed for the analysis of five organophosphorus pesticides (OPPs) by micellar electrokinetic chromatography (MEKC). Parameters that affect the efficiency of the extraction in DLLME and preconcentration by REPSM, such as the kind and volume of the extraction and disperser solvents, salt addition, sample matrix and injection time were investigated and optimized. Under the optimum conditions, the enrichment factors were obtained in the range from 477 to 635. The linearity of the method for parathion, azinphos and fenitrithion was in the range of 20-1000 ng mL-1, and for malathion and diazinon in the range of 50-1000 ng mL-1, with correlation coefficients (r2) ranging from 0.9931 to 0.9992. The limits of detecton (LODs) at a signal-to-noice ratio of 3 ranged from 3 to 15 ng mL-1. The relative recoveries of five OPPs from water samples at spiking levels of 20 and 200 ng mL-1 for parathion, azinphos and fenitrithion, and 50 and 500 ng mL-1 for malathion and diazinon, were 69.5-103%. The proposed method provided high enrichment factors, good precision and accuracy with a short analysis time.  
Keywords: Organophosphorus Pesticides  
Keywords: SW 5040:Data acquisition  
Keywords: Chromatography  
Keywords: Analytical Methods  
Keywords: Electrodes  
Keywords: AQ 00008:Effects of Pollution  
Keywords: Water Resources Abstracts; Aqualine Abstracts  
Keywords: Polarity  
Keywords: Enrichment  
Keywords: Diazinon  
Keywords: Malathion  
Keywords: Parathion English. Date revised - 2012-11-01. Last updated - 2013-03-22. DOI - 4953f4c1-3985-4b24-8f13-e8990e70e2c8; 17266331; 0039-9140. SubjectsTermNotLitGenreText - Organophosphorus Pesticides; Chromatography; Analytical Methods; Electrodes; Polarity; Enrichment; Diazinon; Malathion; Parathion

601. Sonchieu, J.; Ngassoum, M. B.; Tchatchueng, J. B.; Srivastava, A. K., and Srivastava, L. P. Survey of pesticide residues in maize, cowpea and millet from northern Cameroon: part I. 2010; 3, 178-184.   
Rec #: 15950  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In northern Cameroon, the misuse of pesticides for pest control is common among small-scale farmers. Therefore, monitoring of pesticide residues was carried out on stored maize, cowpea and millet from eight localities. The determination of residues of organochlorines (lindane, alpha-endosulfan and beta-endosulfan), organophosphorus compounds (malathion and pirimiphos-methyl), synthetic pyrethroids (permethrin) and carbamates (carbufuran) was performed using GC-ECD/NPD and GC-MS for confirmation. Organochlorine pesticides were detected more frequently and in higher concentrations, ranging from 0.02 +/- 0.01 mgkg(-1) for beta-endosulfan in millet to 9.53 +/- 4.00mg kg(-1) lindane in maize, than organophosphorus compounds, with concentrations varying from 0.04 +/- 0.03mg kg(-1) for pirimiphos methyl to 0.23 +/- 0.38mg kg(-1) for malathion in maize. Permethrin was found only in maize at 0.39 +/- 0.23mg kg(-1). No carbofuran was found. More than 75% of samples contained pesticide residues above the maximum residue limit (MRL); showing a potential human dietary risk related to consumption of these grains.  
Number of Volumes: 3  
ISI Document Delivery No.: 640VJ <Go to ISI>://CCC:000281081700007

602. Sonchieu, Jean; Ngassoum, Martin Benoit; Tchatchueng, Jean Bosco; Srivastava, Ashutosh Kumar, and Srivastava, Laxman Prasad. Survey of pesticide residues in maize, cowpea and millet from northern Cameroon. I. 2010; 3, 178-184.   
Rec #: 11340  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In northern Cameroon, the misuse of pesticides for pest control is common among small-scale farmers. Therefore, monitoring of pesticide residues was carried out on stored maize, cowpea and millet from eight localities. The determination of residues of organochlorines (lindane, ÃŽÂ±-endosulfan and ÃŽÂ²-endosulfan), organophosphorus compounds (malathion and pirimiphos-methyl), synthetic pyrethroids (permethrin) and carbamates (carbufuran) was performed using GC-ECD/NPD and GC-MS for confirmation. Organochlorine pesticides were detected more frequently and in higher concentrations, ranging from 0.02 Ã‚Â± 0.01 mg kg-1 for ÃŽÂ²-endosulfan in millet to 9.53 Ã‚Â± 4.00 mg kg-1 lindane in maize, than organophosphorus compounds, with concentrations varying from 0.04 Ã‚Â± 0.03 mg kg-1 for pirimiphos methyl to 0.23 Ã‚Â± 0.38 mg kg-1 for malathion in maize. Permethrin was found only in maize at 0.39 Ã‚Â± 0.23 mg kg-1. No carbofuran was found. More than 75% of samples contained pesticide residues above the maximum residue limit (MRL); showing a potential human dietary risk related to consumption of these grains.  
Keywords: carbufuran  
Number of Volumes: 3  
Includes references 1022788850 http://www.informaworld.com/smpp/title~content=t783462596~d b=all

603. Song, Renbo and Ding, Yujie. Fingerprinting Biological Materials Based on Fourier Transform Infrared Spectroscopy. 2009.  
Rec #: 8170  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: At the start of the twenty-first century, infrared spectroscopy is one of the standard workhorses of the manufacturing world, whether in semiconductor production, process control in chemical engineering, or environmental monitoring. It is relatively inexpensive, rapid, very sensitive, and can provide quick and efficient information on chemical reaction conditions through its ability to detect characteristic vibrations of molecules of interest in the process under investigation. In the recent years, successful identification and detection of Bio-chemicals have been attracting great interests and have many applications on biomedicine and national defense and security. In practice this goal has been limited by the detection technology. With increasing technology in infrared spectroscopy, especially Fourier Transform Infrared Spectroscopy (FTIR), along with advanced development of sample preparation techniques, computer filtering and manipulation of the results, samples in vapor, liquid and solid forms all can be measured quickly and accurately now. In this thesis, targeted for future sensor design, a Chalcogenide glass based waveguide is designed for bio-sensors in the infrared optical frequency range, and various bio-chemicals have been fingerprinted from Mid-IR to THz by utilizing the tremendous power of FTIR in the spectroscopic characterizations. The studied bio-chemicals were carefully selected based on their potential impacts, such as pharmaceutical and medical related insulin and glucose, national defense and security concerned sucrose, malathion and albumin as simulants for explosives, VX nerve agents and proteinaceous toxin, respectively. As results, the designed waveguide structure has great potential in the application on bio-sensing, and the identified vibrational peaks for these bio-chemicals created a solid foundation for future bio-sensor design and therefore would contribute huge impact on pharmaceutical/medial and national defense and security.  
Start Page: 140  
ISSN/ISBN: 9781109389845  
Keywords: Fingerprinting  
Keywords: Applied sciences  
Keywords: 0544:Electrical engineering  
Keywords: FTIR  
Keywords: Biological materials  
Keywords: Electrical engineering English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2009. Last updated - 2012-07-12. DOI - 1885756611; 42657911; 66569; 9781109389845; 3373088. First page - n/a

604. Sonnenschein, C. and Soto, A. M. An Updated Review of Environmental Estrogen and Androgen Mimics and Antagonists. 1998; 65, (1-6): 143-150.   
Rec #: 970  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (24D,24DXY,ACR,ATZ,CBF,CBL,CPY,CTN,DCF,DCPA,DZ,ES,ES1,ES2,HXZ,MEM,MLN,MTL,MTPN,Maneb,PPZ,RTN,SZ,TFN,THM,Ziram), NO REVIEW (24D,24DXY,ACR,ATZ,CBF,CBL,CPY,CTN,DCF,DCPA,DZ,ES,ES1,ES2,HXZ,MEM,MLN,MTL,MTPN,Maneb,PPZ,RTN,SZ,TFN,THM,Ziram)  
Notes: Chemical of Concern: 24D,24DXY,ACR,ATZ,BDC,CBF,CBL,CHD,CPY,CTN,CZE,DCF,DCPA,DDT,DLD,DZ,ES,ES1,ES2,HCCH,HPT,HXZ,MEM,MLN,MRX,MTL,MTPN,MXC,Maneb,PCB,PCL,PPCP,PPZ,PYN,RTN,SZ,TFN,THM,TXP,Zineb,Ziram

605. South, D. B. and Zwolinski, J. B. Chemicals Used in Southern Forest Nurseries. SOIL; 1996; 20, (3): 127-135.   
Rec #: 340  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ACP,ACR,ATZ,BMY,BRA3,CLP,CPY,CTN,Captan,Conazoles,DCF,DMT,DZ,EFV,EP,EPTC,FNV,FSF,GYP,LCF,LQN,MLN,MLX,MTL,MZB,OXF,PMT,PSM,SFR,SMM,SXD,TDF,TFN,THM,Zn,Zn element), NO REVIEW (ACP,ACR,ATZ,BMY,BRA3,CLP,CPY,CTN,Captan,Conazoles,DCF,DMT,DZ,EFV,EP,EPTC,FNV,FSF,GYP,LCF,LQN,MLN,MLX,MTL,MZB,OXF,PMT,PSM,SFR,SMM,SXD,TDF,TFN,THM,Zn,Zn element)  
Notes: Chemical of Concern: ACP,ACR,ATZ,BMY,BORON,BRA3,CLP,CPY,CTN,Captan,DCF,DMT,DZ,EFV,EP,EPTC,FBM,FNV,FSF,GYP,HMN,LCF,LQN,MLN,MLX,MTL,MZB,NPP,ODZ,OXF,PMT,PSM,SFR,SMM,SXD,TDF,TFN,THM,TPM,Zn

606. Sozeri, B.; Gulez, N.; Aksu, G.; Kutukculer, N.; Akalin, T., and Kandiloglu, G. Pesticide-Induced Scleroderma and Early Intensive Immunosuppressive Treatment. 2012; 67, 43-47.   
Rec #: 15970  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The authors report 2 children with generalized cutaneous sclerosis exposed to pesticides containing malathion and diniconazole. Treatment with immunosuppressives resulted in partial improvement in the cutaneous signs, particularly over the face, trunk, and proximal limbs. The considerable exposure to chemicals related with the initiation of symptoms and absence of organ involvement suggested a diagnosis of chemically induced scleroderma-like disorder. Although autoantibodies were negative, previously reported relevant associations of anti-kinetochore and anti-topoisomerase function of active ingredients-diniconazole and phosphorodithioate-and solvents of these pesticides are also discussed. Careful follow-up for systemic involvement is warranted, since these agents may have triggered systemic scleroderma in these patients. Elimination of chemical exposure of children is stressed.  
Number of Volumes: 1  
ISI Document Delivery No.: 911OR <Go to ISI>://CCC:000301728500007

607. Srivastava, Ashutosh K; Trivedi, Purushottam; Srivastava, M K; Lohani, M; Srivastava, Laxman Prasad, and Srivastava, Ashutosh K. Monitoring of Pesticide Residues in Market Basket Samples of Vegetable From Lucknow City, India: Quechers Method. 2011 May; 176, (1-4): 465-472.   
Rec #: 3500  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The study was conducted on 20 vegetables including leafy, root, modified stem, and fruity vegetables like bitter gourd, jack fruit, french-bean, onion, colocassia, pointed gourd, capsicum, spinach, potato, fenugreek seeds, carrot, radish, cucumber, beetroot, brinjal, cauliflower, cabbage, tomato, okra, and bottle gourd. Forty-eight pesticides including 13 organochlorines (OCs), 17 organophosphates (OPs), 10 synthetic pyrethriods (SPs), and eight herbicides (H) pesticides were analyzed. A total number of 60 samples, each in triplicates, were analyzed using Quick, Easy, Cheap, Effective, Rugged, and Safe method. The quantification was done by GC-ECD/NPD. The recovery varies from 70.22% to 96.32% with relative standard deviation (RSD) of 15%. However the limit of detection ranged from 0.001--0.009 mg kg-1 for OCs, SPs, OPs, and H, respectively. Twenty-three pesticides were detected from total 48 analyzed pesticides in the samples with the range of 0.005--12.35 mg kg-1. The detected pesticides were: Delta \*S-HCH, Dicofol, Delta \*S-Endosulfan, Fenpropathrin, Permethrin-II, Delta \*b-cyfluthrin-II, Fenvalerate-I, Dichlorvos, Dimethoate, Diazinon, Malathion, Chlorofenvinfos, Anilophos, and Dimethachlor. In some vegetables like radish, cucumber, cauliflower, cabbage, and okra, the detected pesticides ( Delta \*S-HCH, Permethrin-II, Dichlorvos, and Chlorofenvinfos) were above maximum residues limit (MRL) (PFA 1954). However, in other vegetables the level of pesticide residues was either below detection limit or MRL.  
Keywords: Organochlorine compounds  
Keywords: ENA 09:Land Use & Planning  
Keywords: Organophosphates  
Keywords: Pesticide residues  
Keywords: fruits  
Keywords: dichlorvos  
Keywords: Momordica charantia  
Keywords: Capsicum  
Keywords: India, Uttar Pradesh, Lucknow  
Keywords: Herbicides  
Keywords: Daucus  
Keywords: Brassica  
Keywords: Malathion  
Keywords: India  
Keywords: Lycopersicon esculentum  
Keywords: P 9999:GENERAL POLLUTION  
Keywords: Solanum tuberosum  
Keywords: Economics  
Keywords: Allium cepa  
Keywords: Pollution Abstracts; Environment Abstracts  
Keywords: Spinacia oleracea  
Keywords: dimethoate English. Date revised - 2011-11-01. Last updated - 2012-06-18. DOI - 69790e53-65cc-4297-b6d1csaobj201; 15174732; 0167-6369. SubjectsTermNotLitGenreText - Organochlorine compounds; Organophosphates; Pesticide residues; fruits; Economics; dichlorvos; Herbicides; dimethoate; Malathion; Lycopersicon esculentum; Solanum tuberosum; Allium cepa; Momordica charantia; Capsicum; Daucus; Spinacia oleracea; Brassica; India, Uttar Pradesh, Lucknow; India

608. Staley, Z. R.; Rohr, J. R., and Harwood, V. J. The effect of agrochemicals on indicator bacteria densities in outdoor mesocosms. 2010; 12, 3150-3158.   
Rec #: 16000  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: P>Water bodies, which are monitored for microbial water quality by quantification of faecal indicator organisms (IOs), can contain various zoonotic pathogens contributed by livestock waste and other sources. Sediments can serve as reservoirs of IOs and other enteric microorganisms, including pathogens. Agrochemicals may influence the survival of these microorganisms in water bodies impacted by livestock waste by enhancing or reducing their survival. Complex, 1100 l, freshwater mesocosms containing leaf litter, zooplankton, periphyton, phytoplankton, and invertebrate and vertebrate animals were used to investigate the **response of Escherichia coli and enterococci to agrochemicals**. Replicate tanks were treated with atrazine, malathion, chlorothalonil and inorganic fertilizer, either alone at 1x or 2x their expected environmental concentrations (EECs) or in pair-wise combinations at their EECs. IOs inoculated in sediment (similar to 104 cfu per 100 ml) were enumerated over 28 days. IOs generally declined over time, but manova revealed that addition of fertilizer and atrazine resulted in significantly greater IO densities. Malathion, chlorothalonil and agrochemical concentration (1x vs 2x) did not significantly affect IO densities and no significant interactions between agrochemicals were noted. The augmentation of IO densities in sediments by fertilizer and atrazine may impact their reliability as accurate predictors of water quality and human health risk, and indicates the need for a better understanding of the fate of IOs and enteric pathogens in sediments exposed to agrochemicals.  
Number of Volumes: 12  
ISI Document Delivery No.: 689WN <Go to ISI>://CCC:000284961700006

609. ---. Test of Direct and Indirect Effects of Agrochemicals on the Survival of Fecal Indicator Bacteria. 2011; 77, 8765-8774.   
Rec #: 16010  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Water bodies often receive agrochemicals and animal waste carrying fecal indicator bacteria (FIB) and zoonotic pathogens, but we know little about the effects of agrochemicals on these microbes. We assessed the direct effects of the pesticides atrazine, malathion, and chlorothalonil and inorganic fertilizer on Escherichia coli and enterococcal survival in simplified microcosms held in the dark. E. coli strain composition in sediments and water column were positively correlated, but none of the agrochemicals had significant direct effects on E. coli strain composition or on densities of culturable FIBs. In a companion study, microcosms with nondisinfected pond water and sediments were exposed to or shielded from sunlight to examine the potential indirect effects of atrazine and inorganic fertilizer on E. coli. The herbicide atrazine had no effect on E. coli in dark-exposed microcosms containing natural microbial and algal communities. However, in light-exposed microcosms, atrazine significantly lowered E. coli densities in the water column and significantly increased densities in the sediment compared to controls. This effect appears to be mediated by the effects of atrazine on algae, given that atrazine significantly reduced phytoplankton, which was a positive and negative predictor of E. coli densities in the water column and sediment, respectively. These data suggest that atrazine does not directly affect the survival of FIB, rather that it indirectly alters the distribution and abundance of E. coli by altering phytoplankton and periphyton communities. These results improve our understanding of the influence of agricultural practices on FIB densities in water bodies impacted by agricultural runoff.  
Number of Volumes: 24  
ISI Document Delivery No.: 863JE <Go to ISI>://CCC:000298157800035

610. Staley, Zachery R; Senkbeil, Jacob K; Rohr, Jason R, and Harwood, Valerie J. Lack of Direct Effects of Agrochemicals on Zoonotic Pathogens and Fecal Indicator Bacteria. 2012 Nov; 78, (22): 8146.   
Rec #: 5570  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Agrochemicals, fecal indicator bacteria (FIB), and pathogens frequently contaminate water simultaneously. No significant direct effects of fertilizer, atrazine, malathion, and chlorothalonil on the survival of Escherichia coli, Enterococcus faecalis, Salmonella enterica, human polyomaviruses, and adenovirus were detected, supporting the assertion that previously observed effects of agrochemicals on FIB were indirect. [PUBLICATION ABSTRACT]  
Keywords: Agricultural chemicals  
Keywords: Bacteria  
Keywords: Contamination  
Keywords: Microbiology  
Keywords: Pathogens  
Keywords: Medical Sciences  
Keywords: Water English. Copyright - Copyright American Society for Microbiology Nov 2012. Last updated - 2012-10-24. CODEN - AEMIDF. DOI - 2796841171; 73310672; 27746; AEMIDF; IAEM; INODIAEM0000625482

611. Stanley, K.; Simonich, S. M.; Bradford, D.; Davidson, C., and Tallent-Halsell, N. Comparison of Pressurized Liquid Extraction and Matrix Solid-Phase Dispersion for the Measurement of Semivolatile Organic Compound Accumulation in Tadpoles. 2009; 28, (10): 2038-2043.   
Rec #: 350  
Keywords: NO CONC,NO DURATION,SURVEY  
Call Number: NO CONC (ACE,ACR,ANT,ATZ,CHR,CPY,DCPA,DZ,EPTC,ES,ES2,ESS,FA,FLU,MLN,MP,MTL,PAHs,PHE,PYR,SZ,TFN), NO DURATION (ACE,ACR,ANT,ATZ,CHR,CPY,DCPA,DZ,EPTC,ES,ES2,ESS,FA,FLU,MLN,MP,MTL,PAHs,PHE,PYR,SZ,TFN), NO SURVEY (ACE,ACR,ANT,ATZ,CHR,CPY,DCPA,DZ,EPTC,ES,ES2,ESS,FA,FLU,MLN,MP,MTL,PAHs,PHE,PYR,SZ,TFN)  
Notes: Chemical of Concern: ACE,ACO,ACR,AND,ANT,ATZ,BAP,CHR,CPY,DCPA,DDE,DDT,DLD,DZ,EN,EPRN,EPTC,ES,ES2,ESS,ETN,FA,FLU,HCCH,HPT,MBZ,MLN,MP,MRX,MTL,MXC,PCB,PCH,PEB,PHE,PPCP,PRN,PYR,SZ,TFN,TRL,TZL

612. Starks, Sarah E.; Gerr, Fred; Kamel, Freya; Lynch, Charles F.; Jones, Michael P.; Alavanja, Michael C.; Sandler, Dale P., and Hoppin, Jane A. Neurobehavioral function and organophosphate insecticide use among pesticide applicators in the Agricultural Health Study. 2012 Jan; 34, (1): 168-176.   
Rec #: 1980  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Although persistent decrements in cognitive function have been observed among persons who have recovered from clinically overt organophosphate (OP) pesticide poisoning, little is known about the cognitive effects of chronic OP exposures that do not result in acute poisoning. To examine associations between long-term pesticide use and neurobehavioral (NB) function, NB tests were administered to licensed pesticide applicators enrolled in the Agricultural Health Study (AHS) in Iowa and North Carolina. Between 2006 and 2008, 701 male participants completed nine NB tests to assess memory, motor speed and coordination, sustained attention, verbal learning and visual scanning and processing. Data on ever-use and lifetime days of use of 16 OP pesticides were obtained from AHS interviews conducted before testing between 1993 and 2007 and during the NB visit. The mean age of participants was 61 years (SD = 12). Associations between pesticide use and NB test performance were estimated with linear regression controlling for age and outcome-specific covariates. NB test performance was associated with lifetime days of use of some pesticides. Ethoprop was significantly associated with reduced performance on a test of motor speed and visual scanning. Malathion was significantly associated with poor performance on a test of visual scanning and processing. Conversely, we observed significantly better test performance for five OP pesticides. Specifically, chlorpyrifos, coumaphos, parathion, phorate, and tetrachlorvinphos were associated with better verbal learning and memory; coumaphos was associated with better performance on a test of motor speed and visual scanning; and parathion was associated with better performance on a test of sustained attention. Several associations varied by state. Overall, we found no consistent evidence of an association between OP pesticide use and adverse NB test performance among this older sample of pesticide applicators. Potential reasons for these mostly null results include a true absence of effect as well as possible selective participation by healthier applicators. Agricultural workers/ Epidemiology/ Organophosphates/ Neuropsychological testing/ Pesticide exposure http://www.sciencedirect.com/science/article/pii/S0892036211001747

613. Starks, Se; Gerr, F; Kamel, F; Lynch, C F; Jones, M P; Alavanja, M C; Sandler, D P; Hoppin, Ja, and Starks, SE. Neurobehavioral Function and Organophosphate Insecticide Use Among Pesticide Applicators in the Agricultural Health Study. 2011 Oct; 17, (4): 364-365.   
Rec #: 3130  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Although persistent decrements in cognitive function have been observed among persons who have recovered from clinically overt organophosphate (OP) pesticide poisoning, little is known about the cognitive effects of chronic OP exposures that do not result in acute poisoning. To examine associations between long-term pesticide use and neurobehavioral (NB) function, NB tests were administered to licensed pesticide applicators enrolled in the Agricultural Health Study (AHS) in Iowa and North Carolina. Between 2006 and 2008, 701 male participants completed nine NB tests to assess memory, motor speed and coordination, sustained attention, verbal learning, and visual scanning and processing. Data on ever-use and lifetime days of use of 16 OP pesticides were obtained from AHS interviews conducted before testing between 1993 and 2007 and during the NB visit. The mean age of participants was 61 years (SD = 12). Associations between pesticide use and NB test performance were estimated with linear regression controlling for age and outcome-specific covariates. NB test performance was associated with lifetime days of use of some pesticides. Ethoprop was significantly associated with reduced performance on a test of motor speed and visual scanning. Malathion was significantly associated with poor performance on a test of visual scanning and processing. Conversely, we observed significantly better test performance for five OP pesticides. Specifically, chlorpyrifos, coumaphos, parathion, phorate, and tetrachlorvinphos were associated with better verbal learning and memory; coumaphos was associated with better performance on a test of motor speed and visual scanning; and parathion was associated with better performance on a test of sustained attention. Several associations varied by state. Overall, we found no consistent evidence of an association between OP pesticide use and adverse NB test performance among this older sample of pesticide applicators. Potential reasons for these mostly null results include a true absence of effect as well as possible selective participation by healthier applicators.  
Keywords: USA, North Carolina  
Keywords: Age  
Keywords: phorate  
Keywords: Organophosphates  
Keywords: Malathion  
Keywords: Memory  
Keywords: Insecticides  
Keywords: H 5000:Pesticides  
Keywords: Information processing  
Keywords: Coumaphos  
Keywords: Learning  
Keywords: Data processing  
Keywords: N3 11001:Behavioral and Cognitive Neuroscience  
Keywords: Poisoning  
Keywords: organophosphates  
Keywords: Sensorimotor integration  
Keywords: Chlorpyrifos  
Keywords: Visual discrimination learning  
Keywords: cognitive ability  
Keywords: Scanning  
Keywords: USA, Iowa  
Keywords: Cognitive ability  
Keywords: Neurotoxicity  
Keywords: Pesticides  
Keywords: Attention  
Keywords: CSA Neurosciences Abstracts; Health & Safety Science Abstracts  
Keywords: Parathion English. Date revised - 2011-11-01. Last updated - 2012-03-29. DOI - MD-0017838169; 16062002; 1074-7583. SubjectsTermNotLitGenreText - Learning; Age; Data processing; phorate; Poisoning; organophosphates; Malathion; Sensorimotor integration; Chlorpyrifos; Visual discrimination learning; Memory; Insecticides; Scanning; Cognitive ability; Information processing; Pesticides; Coumaphos; Attention; Parathion; cognitive ability; Organophosphates; Neurotoxicity; USA, North Carolina; USA, Iowa

614. Steiniger, D.; Lu, G. P.; Butler, J.; Phillips, E., and Fintschenko, Y. Determination of Multiresidue Pesticides in Green Tea by Using a Modified QuEChERS Extraction and Ion-Trap Gas Chromatography/Mass Spectrometry. 2010; 93, 1169-1179.   
Rec #: 16050  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The pesticide residues in exported and imported tea products must not exceed the maximum residue limits (MRLs) regulated by the import countries. Tea is a complex matrix that obfuscates the determination of pesticide residues. Many available methods for multiresidue pesticide analysis of tea are time-consuming and require many cleanup steps. The objective of this study was to develop a simple multiresidue method by using a modified quick, easy, cheap, effective, rugged, and safe (QuEChERS) extraction and ion-trap GC/MS/MS, which can identify, confirm, and quantify pesticides in complex matrixes. A tea product was homogenized with water, and the pesticides were extracted with acetonitrile containing 1% acetic acid. The extract was subjected to centrifugation, initial cleanup with dispersive SPE (dSPE), solvent exchange, and final cleanup with dSPE. Diethyl-d(10)-parathion and triphenyl phosphate were used as the internal standard and surrogate, respectively. The final extract was injected into an ITQ 700 gas chromatograph/mass spectrometer. Quantitation of individual pesticides was based on matrix-matched calibration curves with a correlation coefficient of >0.9930 for the 22 pesticides selected for the study. The recoveries of the 22 pesticides ranged from 78 to 115%, except those for diazinon (130%) and malathion (122%), with an average RSD of 8.7%. The LOD values of all of the pesticides, except for terbufos, were below the MRLs set by the European Union and Japan.  
Number of Volumes: 4  
ISI Document Delivery No.: 645UQ <Go to ISI>://CCC:000281492100016

615. Sternberg, S. S. The Carcinogenesis, Mutagenesis and Teratogenesis of Insecticides. Review of Studies in Animals and Man. 1979; 6, 147-166.   
Rec #: 360  
Keywords: REVIEW  
Call Number: NO REVIEW (CBL,DDVP,MLN,PPB,PSM,TCF)  
Notes: Chemical of Concern: AND,CBL,CHD,DDT,DDVP,DLD,EPRN,HCCH,HPT,MLN,MRX,MXC,PPB,PPCP,PRN,PSM,PYN,TCF,TXP

616. Stone, D. L.; Sudakin, D. L., and Jenkins, J. J. Longitudinal trends in organophosphate incidents reported to the National Pesticide Information Center, 1995-2007. 2009; 8, 18-18.   
Rec #: 16060  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Background: Regulatory decisions to phase-out the availability and use of common organophosphate pesticides among the general public were announced in 2000 and continued through 2004. Based on revised risk assessments, chlorpyrifos and diazinon were determined to pose unacceptable risks. To determine the impact of these decisions, organophosphate (OP) exposure incidents reported to the National Pesticide Information Center (NPIC) were analyzed for longitudinal trends. Methods: Non-occupational human exposure incidents reported to NPIC were grouped into pre-( 1995-2000) and post-announcement periods (2001-2007). The number of total OP exposure incidents, as well as reports for chlorpyrifos, diazinon and malathion, were analyzed for significant differences between these two periods. The number of informational inquiries from the general public was analyzed over time as well. Results: The number of average annual OP-related exposure incidents reported to NPIC decreased significantly between the pre- and post-announcement periods (p < 0.001). A significant decrease in the number of chlorpyrifos and diazinon reports was observed over time (p < 0.001). No significant difference in the number of incident reports for malathion was observed (p = 0.4), which was not phased-out of residential use. Similar to exposure incidents, the number of informational inquiries received by NPIC declined over time following the phase-out announcement. Conclusion: Consistent with other findings, the number of chlorpyrifos and diazinon exposure incidents reported to NPIC significantly decreased following public announcement and targeted regulatory action.  
ISI Document Delivery No.: 444UK <Go to ISI>://CCC:000266005700001

617. Su, R.; Xu, X.; Wang, X. H.; Li, D.; Li, X. Y.; Zhang, H. Q., and Yu, A. M. Determination of organophosphorus pesticides in peanut oil by dispersive solid phase extraction gas chromatography-mass spectrometry. 2011; 879, 3423-3428.   
Rec #: 16080  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The organophosphorus pesticides including phorate, diazinon, tolclofos-methyl, fenitrothin, malathion, fenthion, isocarbophos, quinalphos and phenamiphos, in peanut oils were determined by liquid-liquid extraction coupled with dispersive solid phase extraction and gas chromatography-mass spectrometry (GC-MS). The mixture of multi-walled carbon nanotubes and alumina was used as adsorbent in dispersive solid phase extraction. The effects of some experimental conditions, such as types of multi-walled carbon nanotubes, amount of adsorbents and extraction time were examined. The limits of detection for the analytes were between 0.7 and 1.6 mu g kg(-1). The obtained recoveries of the analytes in the samples were between 85.9 and 114.3% and relative standard deviations were lower than 8.48%. (C) 2011 Elsevier B.V. All rights reserved.  
Number of Volumes: 30  
ISI Document Delivery No.: 852ZO <Go to ISI>://CCC:000297396200010

618. Suave, J; Dall'agnol, E C; Pezzin, a P T; Meier, M M; Silva, D a K, and Suave, J. Biodegradable Microspheres of Poly(3-Hydroxybutyrate)/Poly( Epsilon -Caprolactone) Loaded With Malathion Pesticide: Preparation, Characterization, and in Vitro Controlled Release Testing. 2010 Sep 15; 117, (6): 3419-3427.   
Rec #: 4010  
Keywords: METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this investigation, our aim was to evaluate the performance of a controlled release of malathion pesticide loaded in microspheres of pure polymers of poly(3-hydroxybutyrate) and poly( epsilon -caprolactone) (PCL) and of blends of these polymers with compositions of 70/30, 80/20, 90/10, 95/5, and 97/3 w/w. Microspheres were obtained by an emulsion-evaporation method to load a model pesticide. Scanning electron microscopy and differential scanning calorimetry were used to characterize the effect of the pesticide on the morphology and particles size of the biodegradable microspheres. The interaction between the matrix and pesticide was determined by Fourier transform infrared spectroscopy. The test for controlled release was performed in an aqueous medium, and malathion was quantified by ultraviolet spectroscopy. The results show that the release of malathion was improved with the PCL content in the blends; this indicated the possibility of modulating the release of the pesticide in these biodegradable blends. [copy 2010 Wiley Periodicals, Inc. J Appl Polym Sci, 2010  
Keywords: A 01380:Plant Protection, Fungicides & Seed Treatments  
Keywords: W 30925:Genetic Engineering  
Keywords: Scanning electron microscopy  
Keywords: Spectroscopy  
Keywords: Biodegradability  
Keywords: Controlled release  
Keywords: Malathion  
Keywords: Models  
Keywords: U.V. radiation  
Keywords: I.R. spectroscopy  
Keywords: Pesticides  
Keywords: microspheres  
Keywords: Biotechnology and Bioengineering Abstracts; Microbiology Abstracts A: Industrial & Applied Microbiology  
Keywords: Differential scanning calorimetry English. Date revised - 2012-06-01. Last updated - 2012-09-10. DOI - fda84f5d-9fd8-4568-99cecsaobj201; 15239407; 1097-4628. SubjectsTermNotLitGenreText - Scanning electron microscopy; U.V. radiation; I.R. spectroscopy; Pesticides; microspheres; Spectroscopy; Biodegradability; Controlled release; Malathion; Models; Differential scanning calorimetry

619. Sulak, M T; Keskinler, B, and Sulak, M T. Detection of Malathion Using a Carbon Nanotube Modified Gold Electrode. 2011; 20, (10a): 2744-2749.   
Rec #: 3720  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: We developed a simple strategy for designing a sensitive electrochemical biosensor for organophosphate insecticides (OIs), based on an acetylcholinesterase (AChE)-carbon nanotube (CNT)-polypyrrole (PPy) biocomposite film modified gold electrode (labeled as AChE-CNT-PPy/Au). Based on the inhibition of OIs to the enzymatic activity of AChE, using malathion as a model compound, the conditions for detection of the insecticides were explored. The proposed method demonstrates an easy electron transfer between the immobilized enzyme and the electrode via functionalized CNTs in a polypyrrole matrix. Under optimal conditions, the inhibition of malathion was proportional to its concentration from 1.0-20.0 mu M. The detection limit was 0.1 mu M, with a good precision (RSD = 4.7%, n = 8). The developed biosensor exhibited good stability. This method could be developed as a conventional one to select efficient enzyme inhibitors and investigate toxic compounds against enzymes.  
Keywords: Biosensors  
Keywords: enzyme inhibitors  
Keywords: Insecticides  
Keywords: Organophosphates  
Keywords: Electrodes  
Keywords: enzymatic activity  
Keywords: Enzymes  
Keywords: Environment Abstracts  
Keywords: ENA 21:Wildlife  
Keywords: Malathion  
Keywords: nanotechnology English. Date revised - 2012-02-01. Last updated - 2012-08-02. DOI - OB-MD-0017838038; 16061871; 1018-4619. SubjectsTermNotLitGenreText - Biosensors; enzyme inhibitors; Insecticides; Organophosphates; Electrodes; enzymatic activity; Enzymes; Malathion; nanotechnology

620. Sun, C. X.; Shen, P., and Wang, W. Efficacy of Five Mosquito Larvicides Against Mosquito Larvae in Field. Centers for Disease Contort and Prevention of Tianjin, Tianjin 300011, China//: 2009; 26, (2): 142-144(CHI) (ENG ABS).   
Rec #: 1900  
Keywords: NON-ENGLISH  
Call Number: NON-ENGLISH (CPY,CYP,MLN)  
Notes: Chemical of Concern: CPY,CYP,MLN

621. Sun, H.; Cai, H., and Yao, Z. Toxic Effects of 12 Persistent Organic Pollutants on Nitzschia closterium Determined Using Micro-Plate Assay. National Marine Environmental Monitoring Center, Dalian 116023 People's Rep. China//: 2011; 29, (4): 529-536(CHI) (ENG ABS).   
Rec #: 1930  
Keywords: NON-ENGLISH  
Call Number: NON-ENGLISH (MLN,MP,PAHs,PCP,PHE,PYR)  
Notes: Chemical of Concern: BAP,MLN,MP,NYP,PAHs,PCB,PCP,PHE,PYR

622. Sun, Lina. Determination of Organophosphorus Pesticides and Their Degradation Products in Atmospheric Samples in Western Canada by Lc/Esi+ Ms/Ms. 2009.  
Rec #: 8160  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: This thesis describes a new analytical method for determination of organophosphorus pesticides along with their degradation products using liquid chromatography positive ion electrospray-tandem mass spectrometry with selected reaction monitoring. Chromatography was performed on a Gemini C 6 -phenyl column with a gradient elution using a water-methanol with 0.1% formic acid, 2mM ammonium acetate mobile phase at a flow rate of 0.2 mL min-1 . Method detection limits of 0.1-5 ÎĽg L-1 for selected organophosphorus pesticides, organophosphorus oxon degradation products and other degradation products, such as: 3,5,6-trichloro-2-pyridinol; 2-isopropyl-6-methyl-4-pyrimidol; and diethyl phosphate. Some organophosphorus pesticides such as fenchlorphos are less sensitive with method detection limits of 30 ÎĽg L -1 . A three-point identification approach was adopted with an area from the first selected reaction monitoring transition used for quantitative analysis, while a second selected reaction monitoring transition along with the ratio of areas obtained from the first to second transition are used for confirmation with sample tolerance established by the relative standard deviation of the ratio obtained from standards, which ranged from 3% to 11%. This new method permitted the first known detection of organophosphorus oxon degradation products including chlorpyrifos oxon in atmospheric samples from Bratt's Lake, Saskatchewan and diazinon oxon and malathion oxon from Abbotsford, British. Atmospheric detection limits typically ranged from 0.2-10 pg m -3 . High atmospheric concentrations were observed for chlorpyrifos at Bratt's Lake, diazinon at Abbotsford, and malathion at both sites, particularly in the spring or summer. These high atmospheric concentrations were partly attributed to volatilization of malathion at both sites. A significant amount of the variability in atmospheric concentrations could not be explained by local temperature variations, indicating the source contributions from both local/regional and long-range atmospheric transport were also important. Degradation products followed similar atmospheric trends to their parent active ingredients, indicating that in general higher concentrations of degradation products were observed with elevated concentrations of organophosphorus parent compounds. Additionally, the ratios between the atmospheric concentrations of organophosphorus pesticides and organophosphorus oxons provide an insight into the age of pesticides. Keywords: Liquid chromatography-tandem mass spectrometry; Currently used pesticides; Pesticide analysis; Long-range atmospheric transport; Organophosphorus oxon; Bratt's Lake, Saskatchewan; Abbotsford, British Columbia.  
Start Page: 128  
ISSN/ISBN: 9780494657256  
Keywords: Atmospheric Chemistry  
Keywords: 0486:Analytical chemistry  
Keywords: 0371:Atmospheric Chemistry  
Keywords: Analytical chemistry  
Keywords: Earth sciences  
Keywords: Pure sciences English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2009. Last updated - 2012-07-06. DOI - 2169298161; 55025091; 66569; 9780494657256; MR65725. First page - n/a

623. Sun, M. J.; Liu, D. H.; Zhou, G. X.; Li, J. D.; Qiu, X. X.; Zhou, Z. Q., and Wang, P. Enantioselective Degradation and Chiral Stability of Malathion in Environmental Samples. 2012; 60, 372-379.   
Rec #: 16110  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The dissipation behaviors of the two enantiomers of the organophosphorus pesticide malathion (MA) in environment samples were elucidated using a normal-phase high-performance liquid chromatography with a cellulose-tris(3,5-dimethylphenylcarbamate) (CDMPC) chiral column. A validated chiral residue analysis method in soil and water was established; the average recoveries for the two enantiomers were 88-102% in soil and 81-99% in water. Racemic and enantiopure R-(+)- and S-(-)-MA were incubated in five soil and water systems. The results of the degradation of racemate in all of the environment samples showed the inactive S-(-)-enantiomer degraded more rapidly than the active R-(+)-enantiomer, resulting in a relative enrichment of the R-form. Moreover, when the enantiopure S-(-)- and R-(+)-MA were incubated in three well-chosen soil and water samples, respectively, inversion from one enantiomer to another was found, indicating that using the optically pure enantiomer will not help to increase the bioactivity and reduce the environmental pollution.  
Number of Volumes: 1  
ISI Document Delivery No.: 874GI <Go to ISI>://CCC:000298943000052

624. Sun, Xiaojin; Zhu, Fang; Xi, Jiabin; Lu, Tongbu; Liu, Hong; Tong, Yexiang; Ouyang, Gangfeng, and Sun, Xiaojin. Hollow Fiber Liquid-Phase Microextraction as Clean-up Step for the Determination of Organophosphorus Pesticides Residues in Fish Tissue by Gas Chromatography Coupled With Mass Spectrometry. 2011 Mar; 63, (5-12): 102-107.   
Rec #: 6550  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Hollow fiber liquid-phase microextraction (HF-LPME) technique was used as a clean-up procedure for the determination of organophosphorus pesticides (OPPs) in fish tissue. In this study, eight OPPs were first extracted with acetone from fish sample, the organic extract after rotatory evaporation was then redissolved with water-methanol (95:5, v/v) solution, followed by polyvinylidene difluoride (PVDF) HF-LPME. Experimental HF-LPME and other sample preparation conditions were carefully investigated and optimized. Under the optimum conditions, good linearity were observed in the range of 20-500ng/g, limits of detections (LODs) were in the range of 2.1-4.5ng/g. The repeatability and recovery of the method also showed satisfactory results. Compared with traditional sample preparation method for the determination of OPPs in fish tissue, the method developed in this study eliminated the solid phase extraction (SPE) step, simplified the sample preparation procedure and lowered the cost of analysis.  
Keywords: Marine  
Keywords: ASFA 2: Ocean Technology Policy & Non-Living Resources; Environment Abstracts; ASFA 1: Biological Sciences & Living Resources; Oceanic Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; Aqualine Abstracts; Water Resources Abstracts; Pollution Abstracts  
Keywords: Environmental Studies English. Date revised - 2012-01-01. Last updated - 2012-01-05. DOI - OB-2e24b44c-a653-469b-a74fcsaobj201; 15380998; CS1139749; 0025-326X. SubjectsTermNotLitGenreText - Marine

625. Sunarso, J; Ismadji, S, and Sunarso, J. Decontamination of Hazardous Substances From Solid Matrices and Liquids Using Supercritical Fluids Extraction: a Review. 2009 Jan 15; 161, (1): 1-20.   
Rec #: 7830  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Supercritical fluid has been adopted as an extraction media to remove various kinds of substances from distinct types of solid matrices since three decades ago. Compared to conventional extraction mode, supercritical fluid extraction technology is preferred because of the flexibility in adjusting its dissolving power and inherent elimination of organic solvent which means reducing time and money needed for subsequent purification. Utilization of this method as an environmental remedial technology, however, has become a trend only after its accomplishment in analytical chemistry was acknowledged. This review tries to summarize in a comprehensive manner the multitude aspects involved in hazardous compounds removal from miscellaneous class of environmental matrices. The industrial adsorbent regeneration using supercritical fluid technology is also discussed. Although, this technology has been successfully realized for environmental remediation in laboratory and on pilot-plant scale, its commercialization attempts still lack significant technology improvement in order to reach the economic feasibility.  
Keywords: Feasibility studies  
Keywords: P 3000:SEWAGE & WASTEWATER TREATMENT  
Keywords: Toxicology Abstracts; Pollution Abstracts; Environmental Engineering Abstracts  
Keywords: Bioremediation  
Keywords: regeneration  
Keywords: EE 50:Water & Wastewater Treatment  
Keywords: Solvents  
Keywords: Decontamination  
Keywords: Engineering--Chemical Engineering  
Keywords: Reviews  
Keywords: Economics  
Keywords: Regeneration  
Keywords: Adsorption  
Keywords: Purification  
Keywords: X 24350:Industrial Chemicals  
Keywords: Technology English. Date revised - 2009-05-01. Last updated - 2011-11-07. DOI - OB-MD-0009022614; 8836390; 0304-3894; 1873-3336. SubjectsTermNotLitGenreText - Technology; Reviews; Regeneration; Bioremediation; Economics; Solvents; Feasibility studies; Adsorption; Decontamination; regeneration; Purification

626. Tabashnik, B. E. Modeling and Evaluation of Resistance Management Tactics. 1990: 153-182.   
Rec #: 370  
Keywords: REVIEW  
Call Number: NO REVIEW (MLN)  
Notes: Chemical of Concern: AND,DLD,MLN

627. Takanashi, Hirokazu; Kishida, Misako; Abiru, Kazuya; Kondo, Takashi; Kameya, Takashi; Matsushita, Taku; Nakajima, Tsunenori; Ohki, Akira, and Takanashi, Hirokazu. A Screening Study on the Mutagen Formation Potential of 44 Pesticides. 2013; 62, (1): 14-22.   
Rec #: 5500  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The mutagenicity and the mutagen formation potential (MFP) of seven fungicides, 15 herbicides and 22 insecticides upon chlorination were measured with the Ames Salmonella assay. All the pesticides except for thiram and dichlorvos were non-mutagenic. However, 75% of the tested pesticides showed significant MFP. This indicated that the chlorination by-products of some pesticides are mutagenic, although the pesticides themselves are not. No significant mutagenicity or MFP was observed for 20% of the pesticides tested in the present study. Thiram and dichlorvos, representing 5% of the tested pesticides, had significant mutagenicity and MFP. The average MFP of asulam, which had the highest MFP in this study, was 860 times greater than the average MFP of propyzamide, which had the lowest MFP (below the detection limit). In addition, the chemical structures of pesticides which had significant MFPs were compared to each other in order to see if there are common characteristics among them, but we could not predict whether pesticides are capable of forming mutagens from their chemical structures, use types or mode of actions. MFP measurements are indispensable in order to know whether pesticides are capable of forming mutagens.  
Keywords: WATER RESOURCES  
Keywords: Environment Abstracts; Aqualine Abstracts English. Date revised - 2013-03-01. Last updated - 2013-03-28. DOI - OB-153f5249-b063-46ec-a14emfgefd107; 17767152; 1606-9935; 1605-3974

628. Tamarit-L+¦pez, Jes+ s; Morais, Sergi; Puchades, Rosa, and Maquieira, +üngel. Direct hapten-linked multiplexed immunoassays on polycarbonate surface. 2011 Jan 15-; 26, (5): 2694-2698.   
Rec #: 1960  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Direct hapten-linked multiplexed immunoassay is developed on the polycarbonate surface of standard Digital Versatile Discs (DVDs) for six compounds of environmental concern, as proof of concept. Carboxylated haptens are directly linked to the aminated polycarbonate surface through carbodiimide/succinimide coupling. The modified DVD surface maintained its physical and optical properties. Multiplexed assay reached detection limits down to 0.1 ++g/L for chlorpyrifos, 2,4,5-trichlorophenoxypropionic acid, sulfathiazole and sulfasalazine and down to 1.0 ++g/L for fenthion and malathion. This approach presents advantages such as the improvement in sensitivity in comparison to proteinÇôhapten conjugate format for all the studied analytes and the absence of cross-interference effects, allowing high throughput multianalysis on the same surface. Also, a comparison of the performance of two sensing strategies indicated that DVD disc and drive approach turned out in a simpler mode, the assays being more reproducible and with higher signal to noise ratios. Direct hapten-linked immunoassay/ Polycarbonate/ Digital versatile disc/ Microarray/ Multiplexed analysis http://www.sciencedirect.com/science/article/pii/S0956566310005853

629. Tanaka, A.; Masago, H.; Karino, K., and Ujie, A. Determination of Trace Agrochemicals in Water and Toxicity of Agrochemicals to Fish. 2. Toxicity of Decomposition Products From UV-Irradiated Organophosphorus Agents in Water. 1983; 15, 119-122 (PUBL AS 12241).   
Rec #: 1490  
Keywords: NON-ENGLISH  
Notes: Chemical of Concern: CPYM,DDVP,DZ,FNT,FNTH,MLN

630. Tang, F.; Zhang, X. B.; Liu, Y. S., and Gao, X. W. Tissue Distribution and Properties of Glutathione S-Transferases in Micromelalopha troglodyta (Lepidoptera : Notodontidae). 2008; 43, (3): 268-278.   
Rec #: 1780  
Keywords: IN VITRO  
Call Number: NO IN VITRO (BFT,CPY,CYP,FPN,FPP,HFR,IMC,LCYT,MLN,MOM,NNCT,OMT,PFF,PRB)  
Notes: Chemical of Concern: ABM,ACT,BFT,CPY,CYP,EMMB,FPN,FPP,HFR,IMC,LCYT,MLN,MOM,OMT,PFF,PRB

631. Tao, Y. Q.; Jiang, X.; Bian, Y. R.; Yang, X. L., and Wang, F. Transport of Malathion in Homogeneous Soil Liquid Chromatographic Columns: Influence of Nonequilibrium Sorption. 2009; 8 , 42-51.   
Rec #: 16170  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: With a liquid chromatographic column, the transport behaviors of malathion and Cl(-) in red soil and gray fluvo-aquic soil columns were studied. Malathion was leached with three different solutions (0.01 mol L(-1) CaCl(2), 0.01 mol L(-1) CaCl(2) + 0.001 mol L(-1) citric acid, and 0.01 mol L(-1) CaCl(2) + 0.001 mol L(-1) malic acid) at two pore water velocities (0.191 and 0.382 cm min(-1)). The symmetrical breakthrough curves (BTCs) of Cl(-), which were obtained by using the conservative tracer, showed no significant physical nonequilibrium in solution transport. Compared with those of Cl-, the BTCs of malathion were obviously asymmetrical, with a shift to the right and an extended long-time tail, which is typical of sorption nonequilibrium. Using CXTFIT2.1 and continuous time random walk (CTRW) theory, the physical and hydrodynamic parameters were obtained by fitting the experimental results to the measured BTCs. For both the local equilibrium assumption (LEA) model and the nonequilibrium two-site model (TSM), introduction of a decay term improved the fitting of BTCs, which indicated that sorption-desorption influenced malathion transport. On the whole, the TSM fitted the BTCs better than the LEA model because the TSM accounted for either sorption-ortransport-related nonequilibrium. Under most experimental conditions, compared with the LEA and TSM, the CTRW described the distal portion, especially the extended long-time tails, of BTCs better because non-Fickian diffusion arose at later transport times. The results suggest that the nonequilibrium TSM is a useful approach to predict malathion transport. At later transport times, however, the CTRW, characterizing non-Fickian transport, better explained the BTC tails. These results are valuable to predict and control the fate of malathion in the environment.  
Number of Volumes: 1  
ISI Document Delivery No.: 415DS <Go to ISI>://CCC:000263915100005

632. Tarzwell, C. M. Pollutional Effects of Organic Insecticides. 1959: 132-141.   
Rec #: 890  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (AZ,CBL,CMPH,DS,MLN,MP,TCF,TEPP), NO REVIEW (AZ,CBL,CMPH,DS,MLN,MP,TCF,TEPP)  
Notes: Chemical of Concern: AND,AZ,CBL,CHD,CMPH,DDT,DEM,DLD,DS,EN,EPRN,HCCH,HPT,MLN,MP,MXC,PPCP,PRN,TCF,TEPP,TXP

633. Taylor, S. K. Investigation of Mortality of Wyoming Toads and the Effect of Malathion on Amphibian Disease Susceptibility. 1998: 83 p. (UMI #9915783).   
Rec #: 1160  
Keywords: PUBL AS  
Call Number: NO PUBL AS (MLN)  
Notes: Chemical of Concern: MLN

634. Terrell, Y.; Parke, G., and Charles, S. J. Acute Oral LD50 in Rats, Compound: Malathion Technical (Fyfanon). 1978.  
Rec #: 900  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

635. Tewabe, Dereje; Getahun, Abebe; Dejen, Eshete, and Tewabe, Dereje. Fishing Activities in Gendwuha, Guang, Shinfa and Ayima Rivers in Tekeze and Abbay Basins, Ethiopia: Preliminary Study. 2010; 10, (2-4): 333.   
Rec #: 4450  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: We sampled fishes of the rivers Gendwuha, Guang, Shinfa, and Ayima with 6, 8, 10, 12 and 14 cm stretched mesh gillnet, monofilament of different mesh sizes, hook and line, fykenet and castnet. During October 2007 through January 2008 in both dry and wet seasons. 27 fish species were identified from the four rivers represented by the families: Centropomidae, Cichlidae, Bagridae, Schilbeidae, Clariidae, Mochokidae, Malapteruridae, Osteoglossidae, Mormyridae, Characidae, Citharinidae and Cyprinidae. Species richness was slightly highest in the rivers Shinfa and Ayima - 20 species each, whereas 16 and 18 species were identified from Gendwuha and Guang rivers, respectively. Most destructive fishing methods used in the region include plant poisons and chemicals (Malathion) which are nonselective and dangerous for all biota. Action towards awareness creation in this respect should be urgently undertaken before extinction of species.  
Keywords: Bagridae  
Keywords: Hydrobiology  
Keywords: Basins  
Keywords: Species Diversity  
Keywords: Freshwater fish  
Keywords: Freshwater  
Keywords: Malathion  
Keywords: Fishing  
Keywords: ASFA 1: Biological Sciences & Living Resources; Water Resources Abstracts; Aqualine Abstracts; Ecology Abstracts  
Keywords: Rainy season  
Keywords: Ethiopia  
Keywords: Osteoglossidae  
Keywords: Malapteruridae  
Keywords: Cyprinidae  
Keywords: SW 0835:Streamflow and runoff  
Keywords: Schilbeidae  
Keywords: Mochokidae  
Keywords: Poisons  
Keywords: Species richness  
Keywords: AQ 00001:Water Resources and Supplies  
Keywords: Biological surveys  
Keywords: Rivers  
Keywords: Clariidae  
Keywords: Centropomidae  
Keywords: Extinction  
Keywords: Catching methods  
Keywords: Mormyridae  
Keywords: Cichlidae  
Keywords: Community composition  
Keywords: D 04040:Ecosystem and Ecology Studies  
Keywords: Characidae  
Keywords: Q1 01563:Fishing gear and methods  
Keywords: Fish  
Keywords: Species extinction  
Keywords: Citharinidae English. Date revised - 2011-10-01. Number of references - 10. Last updated - 2012-06-29. DOI - 602405bc-a889-4351-bff4mfgefd101; 15634528; CS1153311; 1642-3593. SubjectsTermNotLitGenreText - Rivers; Biological surveys; Fishing; Community composition; Rainy season; Catching methods; Hydrobiology; Freshwater fish; Species extinction; Extinction; Basins; Malathion; Species richness; Species Diversity; Fish; Poisons; Clariidae; Cichlidae; Osteoglossidae; Centropomidae; Malapteruridae; Cyprinidae; Bagridae; Characidae; Schilbeidae; Mochokidae; Mormyridae; Citharinidae; Ethiopia; Freshwater. Abebe, G. 2002. The Nile basin: riverine fish and fisheries. Dept. of Biology, Addis Ababa University, Addis Ababa, Ethiopia, pp. 19. A report on the ichthyological survey for fishery development in the Omo-Gibe basin. Joint Ethio-Russian Biological Expedition (JERBE) manuscript, Addis Ababa, Ethiopia. de Graaf, M; Dejen, E; Sibbing, F A; Osse, JWM. Barbus tanapelagius, a new species from Lake Tana (Ethiopia): its morphology and ecology. ENVIRONMENTAL BIOLOGY OF FISHES, 59. 1 (2000): 1-9. KLUWER ACADEMIC PUBL. Ethiopian Meteorological Agency 2008b. Monthly mean maximum and minimum temperature at Metema station from 2004-2007. Ethiopian Meteorological Agency, Bahir Dar, Ethiopia. Ethiopian Meteorological Agency 2008a. Mean monthly Rainfall at Metema station from 2004-2007. Ethiopian Meteorological Agency, Bahir Dar, Ethiopia. Getahun, A; Stiassny, M L J; Getahun, A. The freshwater biodiversity crisis: the case of the Ethiopian fish fauna. Sinet, an Ethiopian Journal of Science, 21. 2 (1998): 207-230. Golubtsov, A S; Golubtsov, A S; Darkov, A A; Dgebuadze, Yu.Yu.; et al. An artificial key to fish species of the Gambela region (the White Nile Basin in the limits of Ethiopia) (1995): 1-84. Graaf, M de. Lake Tana's piscivorous Barbus (Cyprinidae, Ethiopia): ecology, evolution, exploitation. Lake Tana's piscivorous Barbus (Cyprinidae, Ethiopia): ecology, evolution, exploitation (2003): [sn]. JERBE 1995. A report on the ichthyological survey for fishery development in the Omo-Gibe basin. Joint Ethio-Russian Biological Expedition (JERBE) manuscript, Addis Ababa, Ethiopia. Lake Tana?s piscivorous barbus (Cyprinidae, Ethiopia). Ecology, evolution exploitation. PhD thesis, Wageningen Agricultural University, The Netherlands. Roberts, T R. GEOGRAPHICAL DISTRIBUTION OF AFRICAN FRESHWATER FISHES. ZOOLOGICAL JOURNAL OF THE LINNEAN SOCIETY, 57. 4 (1975): 249-319. ACADEMIC PRESS LTD. WOOD, R. B.; TALLING, J. F. Chemical and algal relationships in a salinity series of Ethiopian inland waters. Hydrobiologia (The Hague), 158. (1988): 29-67. Springer

636. Theiling, K. M. and Croft, B. A. Pesticide Side-Effects on Arthropod Natural Enemies - A Database Summary. 3208//: 1988; 21, (3-4): 191-218.   
Rec #: 1230  
Keywords: REVIEW  
Call Number: NO REVIEW (ADC,AZ,BMY,CBL,CYP,Captan,DCF,DFZ,DM,DMT,DS,DZ,ES,FNT,FNV,FTT,FVL,MLN,MOM,MP,MTM,MVP,OXD,PFF,PMR,PQT,TBO,TCF,TEPP,TLM)  
Notes: EcoReference No.: 54800  
Chemical of Concern: ADC,AZ,BMY,CBL,CHX,CYP,Captan,DCF,DDT,DEM,DFZ,DM,DMT,DS,DZ,EPRN,ES,FNT,FNV,FTT,FVL,HCCH,HDP,MLN,MOM,MP,MTM,MVP,OXD,PFF,PHSL,PIM,PMR,PPCP,PQT,PRN,RYA,TBO,TCF,TEPP,TLM

637. Thiermann, H; Eyer, F; Felgenhauer, N; Pfab, R; Zilker, T; Eyer, P; Worek, F, and Thiermann, H. Pharmacokinetics of Obidoxime in Patients Poisoned With Organophosphorus Compounds. 2010 Sep 1; 197, (3): 236-242.   
Rec #: 6880  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Reactivation of inhibited acetylcholinesterase (AChE) with oximes is a causal therapy of intoxication with organophosphorus compounds (OPs). Maximal oxime effects are expected when effective doses are administered as soon as possible and as long as reactivation can be anticipated. An obidoxime plasma level in the range of 10-20I14M was estimated as appropriate. The achievement of this target was assessed in 34 severely OP-poisoned patients. After admission to the intensive care unit (ICU) the obidoxime regimen (250mg i.v. as bolus, followed by 750mg/24h) was started and maintained as long as reactivation was possible. Plasma concentrations of obidoxime were determined by HPLC. A total amount of 2269Ac1726mg obidoxime was infused over 65hAc55h resulting in a steady state plasma concentration of 14.5Ac7.3I14M. Obidoxime was eliminated with t 1/2(1) 2.2 and t 1/2(2) 14h. The volumes of distribution amounted to 0.32Ac0.1L/kg (V (1)) and 0.28Ac0.12 (V (2))L/kg. Postmortem examination of tissue in one patient showed obidoxime accumulation in cartilage, kidney and liver and pointed to brain concentrations similar to plasma concentration. Using the suggested obidoxime regimen, the targeted plasma concentration could be achieved. Obidoxime was eliminated biphasically and was well tolerated. This result allows the recommendation of using this definite regimen for adults also in case of mass casualties.  
Keywords: High-performance liquid chromatography  
Keywords: Intoxication  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Pharmacy And Pharmacology  
Keywords: Organophosphorus compounds  
Keywords: obidoxime  
Keywords: Acetylcholinesterase  
Keywords: Cartilage  
Keywords: Brain  
Keywords: Pharmacokinetics  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: intensive care units  
Keywords: Plasma levels  
Keywords: intoxication  
Keywords: X 24310:Pharmaceuticals  
Keywords: Intensive care units  
Keywords: oximes  
Keywords: Dose-response effects  
Keywords: Kidney  
Keywords: Liver English. Date revised - 2011-10-01. Last updated - 2011-12-08. DOI - OB-c5cc3828-5ee9-4cfd-97f3csaobj202; 13248803; 0378-4274. SubjectsTermNotLitGenreText - Intoxication; High-performance liquid chromatography; Organophosphorus compounds; obidoxime; Acetylcholinesterase; Cartilage; Brain; Pharmacokinetics; Plasma levels; Intensive care units; oximes; Kidney; Liver; intoxication; Dose-response effects; intensive care units

638. Thomatou, &Ampalphanna-ï Zacharias Ierotheos; Hela, Dimitra; Konstantinou, Ioannis, and Konstantinou, Ioannis. Passive Sampling of Selected Pesticides in Aquatic Environment Using Polar Organic Chemical Integrative Samplers. 2011 Aug; 18, (7): 1222-1233.   
Rec #: 6250  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Purpose: Polar chemical integrative samplers (POCIS) were examined for their sampling efficiency of 12 pesticides and one metabolite commonly detected in surface waters. Laboratory-based calibration experiments of POCISs were conducted. The determined passive sampling rates were applied for the monitoring of pesticides levels in Lake Amvrakia, Western Greece. Spot sampling was also performed for comparison purposes. Methods: Calibration experiments were performed on the basis of static renewal exposure of POCIS under stirred conditions for different time periods of up to 28 days. The analytical procedures were based on the coupling of POCIS and solid phase extraction by Oasis HLB cartridges with gas chromatography-mass spectrometry. Results: The recovery of the target pesticides from the POCIS was generally >79% with relative standard deviation (RSD) <16%. The calibration results revealed an integrative uptake of all pesticides for 28 days and the calculated sampling rates ranged from 0.025 to 0.388 L day super(-1) with RSD <29%. Low nanogram/liter levels of pesticides such as diazinon, alachlor, and s-metolachlor were detected during the monitoring campaign using both passive and spot sampling whereas higher concentrations were measured by spot sampling in most cases. Conclusions: Passive sampling by POCIS provides a useful tool for the monitoring of pesticides in aquatic systems since integrative sampling at rates sufficient for analytical quantitation of ambient levels was observed. Calibration data are in demand for a greater number of compounds in order to extend the use in environmental monitoring.  
Keywords: Environmental Studies--Pollution  
Keywords: Environment Abstracts; Pollution Abstracts English. Date revised - 2012-01-01. Last updated - 2012-01-05. DOI - OB-f4609434-fda7-40f9-b2e1mfgefd107; 15420460; 0944-1344; 1614-7499

639. Thomatou, Anna-Akrivi; Zacharias, Ierotheos; Hela, Dimitra, and Konstantinou, Ioannis. Determination and Risk Assessment of Pesticide Residues in Lake Amvrakia (W. Greece) After Agricultural Land Use Changes in the Lake's Drainage Basin. 2013; 93, (7): 780.   
Rec #: 5350  
Keywords: SURVEY  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A monitoring study of pesticides belonging to different chemical families was carried out in Amvrakia lake (West Greece) waters after land use changes in the lake's basin. Based on land-use patterns, nine sampling points were selected. Pesticides were extracted by solid phase extraction (SPE) using Oasis HLB cartridges and analysed by gas chromatographic techniques with flame thermionic and mass-spectra detection. Pesticides detected during the monitoring survey include eight herbicides (alachlor, atrazine, s-metolachlor, pendimethalin, prometryne, propachlor, simazine, trifluralin) and one metabolite (deethyl atrazine) with concentration levels up to 807 ng L-1 (recorded for alachlor), eight insecticides (azinphos methyl, chlorpyrifos, chlorpyrifos methyl, diazinon, dimethoate, fenitrothion, malathion, methidathion) with concentration levels up to 490 ng L-1 (recorded for azinphos methyl) and six fungicides (benalaxyl, cyproconazole, fenarimol, pyrimethanil, triadimefon, triadimenol) with concentration levels up to 408 ng L-1 (recorded for pyrimethanil). More frequently detected pesticides were atrazine, deethyl atrazine, alachlor, azinphos methyl, chlorpyrifos methyl, diazinon and pyrimethanil. The higher concentrations were measured during spring-early summer period, following seasonal application of pesticides and diminished significantly during winter. Littoral sampling stations presented higher pesticide concentration levels and more frequent detection. **Aquatic risk assessment** was based on the Risk Quotient (RQ = MEC/PNEC) deterministic method regarding three trophic levels: algae, aquatic invertebrates and fish. Non-acceptable risk for 10 compounds was observed when maximum concentrations were used. Compliance to EC environmental quality standards is also discussed. [PUBLICATION ABSTRACT]  
Keywords: Agriculture  
Keywords: Risk assessment  
Keywords: Lakes  
Keywords: Greece  
Keywords: Drainage  
Keywords: Pesticides  
Keywords: Analytical chemistry  
Keywords: Land use  
Keywords: Environmental Studies English. Copyright - Copyright Taylor & Francis Group 2013. Last updated - 2013-05-24. DOI - 2978791241; 78995652; 105337; IJEA; INODIJEA0000712663. SubjectsTermNotLitGenreText - Greece

640. Thompson, Charles M; Prins, John M, and George, Kathleen M. Mass Spectrometric Analyses of Organophosphate Insecticide Oxon Protein Adducts. 2010 Jan; 118, (1): 11-9.   
Rec #: 7200  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Organophosphate (OP) insecticides continue to be used to control insect pests. Acute and chronic exposures to OP insecticides have been documented to cause adverse health effects, but few OP-adducted proteins have been correlated with these illnesses at the molecular level. Our aim was to  **review the literature covering the current state of the art in mass spectrometry** (MS) used to identify OP protein biomarkers. We identified general and specific research reports related to OP insecticides, OP toxicity, OP structure, and protein MS by searching PubMed and Chemical Abstracts for articles published before December 2008. A number of OP-based insecticides share common structural elements that result in predictable OP-protein adducts. The resultant OP-protein adducts show an increase in molecular mass that can be identified by MS and correlated with the OP agent. Customized OP-containing probes have also been used to tag and identify protein targets that can be identified by MS. MS is a useful and emerging tool for the identification of proteins that are modified by activated organophosphate insecticides. MS can characterize the structure of the OP adduct and also the specific amino acid residue that forms the key bond with the OP. Each protein that is modified in a unique way by an OP represents a unique molecular biomarker that with further research can lead to new correlations with exposure.  
Keywords: Insecticides -- toxicity  
Keywords: Organophosphorus Compounds -- analysis  
Keywords: Animals  
Keywords: Cholinesterases -- chemistry  
Keywords: Cholinesterases  
Keywords: Humans  
Keywords: Amino Acid Sequence  
Keywords: Environmental Pollutants -- analysis  
Keywords: Insecticides -- analysis  
Keywords: Environmental Studies  
Keywords: Environmental Pollutants  
Keywords: Environmental Monitoring  
Keywords: Proteins -- drug effects  
Keywords: Organophosphorus Compounds  
Keywords: Cholinesterases -- drug effects  
Keywords: Proteins -- chemistry  
Keywords: Insecticides  
Keywords: Molecular Sequence Data  
Keywords: Environmental Exposure  
Keywords: Mass Spectrometry -- methods  
Keywords: Organophosphorus Compounds -- toxicity  
Keywords: Proteins  
Keywords: Biological Markers English. Copyright - Copyright National Institute of Environmental Health Sciences Jan 2010. Last updated - 2013-02-24. DOI - 1943895611; 50348511; 67001; ENHP; 20056576; INODENHP0006208103. REFERENCES. Aardema MJ, MacGregor JT. 2002. Toxicology and genetic toxicology in the new era of "toxicogenomics": impact of "-omics" technologies. Mutat Res 499:13-25. Adam GC, Cravart BF, Sorensen EJ. 2001. Profiling the specific reactivity of the proteome with non-directed activity-based probes. Chem Biol 8:81-95. Adam GC. Sorensen EJ, Cravatt BF. 2002. Trifunctional chemical probes for the consolidated detection and identification of enzyme activities from complex proteomes. MoI Cell Proteomics 1:828-835. Adamczyk M, Gebier JC, Wu J. 2001. Selective analysis of phosphopeptides within a protein mixture by chemical modificaiion, reversible biotinylation and mass spectrometry. Rapid Commun Mass Spectrom 15:1481-1488. Albuquerque EX, Aracava Y, Cintra WM. 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Amino acid residues controlling reactivation of organophosphonyl conjugates of acetylcholinesterase by mono- and bisquaternary oximes. J Biol Chem 270:6370-6380. Ballantyne B, MarrsT. 1992. Clinical and Experimental Toxicology of Organophosphates and Carbamates. Boston:Butterworth Heinemann. Barak R, Ordentlich A, Barak D, Fischer M, Benschop HP, De Jong LPA, et al. 1997. Direct determination of the chemical composition of acetylcholinesterase phosphonylation products utilizing electrospray-ionization mass spectrometry. FEBS Lett 407:347-352. Barr DB, Allen R, Olsson AO. Bravo R. Caltabiano LM. Montesano A, et al. 2005. Concentrations of selective metabolites of organophosphorus pesticides in the United States population. Environ Res 99:314-326. Bennett KL. Stensballe A, Podtelejnikov AV. Moniatte M, Jensen ON. 2002. Phosphopeptide detection and sequencing by matrix-assisted laser desorption/ionization quadrupole time-of-flight tandem mass spectrometry. J Mass Spectrom 37:179-190. Berkman CE, Quinn DA, Thompson CM. 1993a. Interaction of acetylcholinesterase with the enantiomers of malaoxon and isomalathion. Chem Res Toxicol 6:724-730. Berkman CE, Ryu S, Quinn DA, Thompson CM. 1993b. Kinetics of the postinhibitory reactions of acetylcholinesterase poisoned by chira! isomalathion: a surprising nonreactivation induced by the RP stereoisomers. Chem Res Toxicol 6:28-32. Berkman CE. Thompson CM, Perrin SR. 1993c. Synthesis, absolute configuration, and analysis of malathion, malaoxon, and isomalathion enantiomers. Chem Res Toxicol 6:718-723. Bomser J, Casida JE. 2000. Activation of extracellular signalregulated kinases (ERK 44/42) by chlorpyrifos oxon in Chinese hamster ovary cells. J Biochem MoI Toxicol 14:346-353. Bomser JA, Casida JE. 2001. Diethylphosphorylation of rat cardiac M2 muscarinic receptor by chlorpyrifos oxon in vitro. Toxicol Lett 119:21-26. Bomser JA, Quistad GB, Casida JE. 2002. 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Rec #: 6080  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Fresh potatoes (228 samples) from 34 farmers' markets in Alberta were analyzed for 29 pesticides. Residues of three different pesticides were found in the samples tested with chlorpropham being most frequently detected (n = 13) at concentrations ranging from 15 to 7,600 mu g kg super(-1). Azoxystrobin (n = 11) and imidacloprid (n = 8) were found at concentrations ranging from 0.6 to 5.1 and 15-31 mu g kg super(-1) respectively. All pesticide concentrations were below Canadian maximum residue limits as established for potatoes. No pesticide residues were detected in 23 potato samples obtained from certified organic farmers.  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2011-10-01. Last updated - 2011-12-07. DOI - OB-413899ba-c44c-4294-bf0emfgefd101; 15838308; 0007-4861; 1432-0800

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Rec #: 1770  
Keywords: NO SPECIES  
Call Number: NO SPECIES (CMPH,MLN)  
Notes: Chemical of Concern: CMPH,MLN

643. Tiwari, D. N.; Pandey, A. K., and Mishra, A. K. Toxicity of Malathion (S-1,2-di(Ethoxycarbonyl) Ethyldimethyl Phosphorothiothionate), on Growth and Nitrogen Fixation of Cyanobacterium Nostoc calcicola. 1979; 30, 92-96.   
Rec #: 910  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

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Rec #: 1450  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: http://www.sciencedirect.com/science/article/pii/S0378427409009370

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Rec #: 1630  
Keywords: METHODS,REFS CHECKED  
Call Number: NO METHODS (24DXY,ACR,ADC,AMZ,APAC,AZ,AZX,BAD,BCDMH,BDF,BDL,BFT,BMC,BML,BNS,BS,C10OH,CAP,CBD,CBF,CBL,CBX,CLNB,CMPH,CMZ,CPC,CPP,CPYM,CTAC,CTN,CXL,CYF,Captan,Conazoles,DCDMH,DCDT,DCNA,DCTP,DDAC,DFT,DFZ,DMB,DMZ,DPC,DTEA,DZ,EFX,EP,EPH,ES,FAR,FDE,FMP,FMX,FNPE,FNT,FNZ,FOSNH,FPD,FPP,FRM,FTS,FYC,Folpet,GFSNH,GYP,HFR,HFZ,HMAE,HXZ,IGS,IMC,INDBA,IPPA,IRG,KO,LCYT,MB,MCB,MDT,MFZ,MITC,MLH,MLN,MOM,MP,MTL,MTPN,NAPH,NER,NNCT,NONA,Naled,OBPA,OTN,OXD,OXZD,OYZ,PAHs,PBZ,PCP,PCZ,PDM,PFF,PFOS,PIRM,PLL,PMT,PNB,PPA,PPB,PPCP,PPCP2011,PPN,PPR,PPX,PRB,PRO,PSM,RTN,SFA,SFZ,STCH,SXD,SZ,TBC,TBO,TBTF,TBZ,TCMTB,TDC,TET,TFR,TLM,TMT,TNMETH,TVP,VCZ,WFN), NO REFS CHECKED (24DXY,ACR,ADC,AMZ,APAC,AZ,AZX,BAD,BCDMH,BDF,BDL,BFT,BMC,BML,BNS,BS,C10OH,CAP,CBD,CBF,CBL,CBX,CLNB,CMPH,CMZ,CPC,CPP,CPYM,CTAC,CTN,CXL,CYF,Captan,Conazoles,DCDMH,DCDT,DCNA,DCTP,DDAC,DFT,DFZ,DMB,DMZ,DPC,DTEA,DZ,EFX,EP,EPH,ES,FAR,FDE,FMP,FMX,FNPE,FNT,FNZ,FOSNH,FPD,FPP,FRM,FTS,FYC,Folpet,GFSNH,GYP,HFR,HFZ,HMAE,HXZ,IGS,IMC,INDBA,IPPA,IRG,KO,LCYT,MB,MCB,MDT,MFZ,MITC,MLH,MLN,MOM,MP,MTL,MTPN,NAPH,NER,NNCT,NONA,Naled,OBPA,OTN,OXD,OXZD,OYZ,PAHs,PBZ,PCP,PCZ,PDM,PFF,PFOS,PIRM,PLL,PMT,PNB,PPA,PPB,PPCP,PPCP2011,PPN,PPR,PPX,PRB,PRO,PSM,RTN,SFA,SFZ,STCH,SXD,SZ,TBC,TBO,TBTF,TBZ,TCMTB,TDC,TET,TFR,TLM,TMT,TNMETH,TVP,VCZ,WFN)  
Notes: Chemical of Concern: 24DB,24DIO,24DXY,ABZM,ACO,ACR,ADC,AMTR,AMZ,ANZ,APAC,ASM,AZ,AZX,BAD,BCDMH,BCP,BDC,BDF,BDL,BFT,BFZ,BMC,BML,BMNO,BNP,BNS,BS,C10OH,CAP,CBD,CBF,CBL,CBX,CHDA,CHX,CLNB,CMPH,CMX,CMZ,CPC,CPP,CPYM,CPZ,CSF,CTAC,CTN,CXL,CYC,CYD,CYF,CZE,Captan,DBN,DBNPA,DCDMH,DCNA,DCTP,DDAC,DDT,DEET,DFC,DFFNa,DFPM,DFQM,DFT,DFZ,DIC,DIE,DMB,DMM,DMZ,DPA,DPC,DTEA,DTM,DTP,DZ,EDT,EFL,EFX,EP,EPH,ES,ETN,EXQ,FAR,FDE,FDX,FMP,FMU,FMX,FNB,FNF,FNPE,FNT,FNTH,FNZ,FOSNH,FPD,FPP,FRM,FTS,FYC,Folpet,GFSNH,GYP,HFR,HFZ,HMAE,HMN,HOS,HXZ,HYX,IFP,IGS,ILL,IMBM,IMC,IMQ,INDBA,IPN,IPPA,IRG,KO,KRSM,LCYT,MB,MBZ,MCB,MDT,MFZ,MGK264,MITC,MLH,MLN,MND,MNK,MOM,MP,MSCL,MTL,MTPN,NAPH,NER,NONA,NPM,NPP,NTP,NaFA,Naled,OBPA,ODL,ODZ,OTN,OTQ,OXD,OXZD,OYZ,PAHs,PBZ,PCH,PCL,PCP,PCZ,PDM,PEB,PFF,PFOS,PIM,PIRM,PLL,PMT,PMZ,PNB,PPA,PPB,PPCP,PPCP2011,PPHD,PPN,PPR,PPX,PRB,PRC,PRO,PSM,PYD,PYX,RIM,RTN,SFA,SFZ,STAR,STCH,SXD,SZ,TBA,TBC,TBO,TBTF,TBZ,TCMTB,TDC,TDZ,TET,TEZ,TFR,TFT,TFX,TLM,TMT,TPM,TPTH,TRB,TVP,TZA,TZL,VCZ,WFN

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Rec #: 5970  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The challenge for the monitoring of environmental hazards such as pollutants, herbicides, pesticides and toxins caused by expanding industrialisation and application of new intensive agricultural technologies is to develop efficient tools that offer precision, sensitivity, and speed and ease of operation in situ and avoid consequently risks for both human and environmental health. In this context, electrochemical biosensors appear as excellent analytical devices alternative or complementary to conventional systems for environmental monitoring purposes. This paper presents a review about the use of electrochemical biosensors for environmental analysis, taking into particular account the general principles and characteristics as well as some representative applications of enzymatic, antibody and aptamer-based biosensors. This review covers several papers published in the last 15 years putting in evidence the improvement reached in this field of research.  
Keywords: Health & Safety Science Abstracts; Environment Abstracts  
Keywords: Environmental Studies English. Date revised - 2013-03-01. Last updated - 2013-03-28. DOI - OB-68507b80-370b-48d0-bc3ccsamfg201; 17408238; 1743-4955; 1743-4963

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Rec #: 8110  
Keywords: BACTERIA  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Soil bacteria play an important role in maintaining healthy soil and providing microorganisms and plants with necessary nutrients. There is a concern that a wide range of over-the-counter pesticide formulations (OCPs) used on agricultural soils, gardens, lawns, and other private properties to control pests are toxic to mammals, including humans, birds, fish and other aquatic organisms, and invertebrates. Usually the toxicity of the pesticide formulations is due to the pesticide component of that formulation. However the effects of inert/non-pesticide components of pesticide formulations are less studied. Here we investigate the toxicity of over-the-counter pesticide formulations to non-target soil bacteria and demonstrate that the pesticide formulations inhibit bacterial growth. The study was conducted on five bacterial strains obtained from soil, and Ortho Bug-B-Gone over-the-counter pesticide formulations containing bifenthrin, malathion and esfenvalerate as active ingredients. In disc diffusion assay all five bacterial colonies demonstrated susceptibility to 20ÎĽl pesticide formulations that inhibited bacterial growth in a circular zone around the disc. When the same experiment was performed using reagent grade pesticide solutions the bacteria were not affected. To study the growth of bacteria in media containing pesticide formulations the time-dependent optical density measurements of absorbance of bacterial cultures were performed. Different concentrations of pesticide formulations, ranging from 0.005ml to 0.5ml, were added to the media. The higher concentrations of the pesticide formulations caused fewer changes in optical density suggesting the inhibition of bacterial growth. In contrast, optical density measurements on pesticide-free or reagent grade pesticide treated media showed exponential growth of the bacteria. These findings suggest that OCPs are toxic to non-target soil bacteria, and the toxicity can be caused not by an active ingredient, but the pesticide formulation in a whole or their inert components.  
Start Page: 41  
ISSN/ISBN: 9780549938019  
Keywords: Soil sciences  
Keywords: Microbiology  
Keywords: 0481:Soil sciences  
Keywords: 0410:Microbiology  
Keywords: Biological sciences English. Copyright - Copyright ProQuest, UMI Dissertations Publishing 2009. Last updated - 2010-08-06. DOI - 1639170681; 41823331; 66569; 9780549938019; 1460573. First page - n/a

648. Tsakirakis, a; Kasiotis, K M; Arapaki, N; Charistou, a ; Tsatsakis, a; Glass, C R; Machera, K, and Tsakirakis, A. Determination of Operator Exposure Levels to Insecticide During Bait Applications in Olive Trees: Study of Coverall Performance and Duration of Application. 2011 Jan; 214, (1): 71-78.   
Rec #: 3730  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In this study the operator exposure levels during bait applications of an insecticide in olive groves were determined using a whole body dosimetry method for dermal exposure. The study design allowed the roles of application task duration and coverall type to be evaluated as factors influencing operator exposure. Twenty applications were carried out with knapsack sprayers in the Tanagra region of Viotia, Greece, ten of which were for a 1 h and ten for a 3 h duration. An in-house GC-NPD analytical method was developed and validated for the determination of malathion, the active substance (a.s.) of the insecticide formulation used in field trials. The mean recovery of field-fortified samples was 84% (%RSD = 3.0). Field trial results generally indicated lower operator exposure levels than indicated by the most relevant operator exposure predictive model. Residues of malathion on internal dosimeters were compared to those measured on the respective outer coveralls (potential dermal exposure) to evaluate the protective factor of each one of the two coverall types used. Both coverall types provided satisfactory levels of protection and can be considered as suitable protection for the conditions of the application scenario studied. Furthermore, the results indicated that there is not a strong correlation between exposure levels and duration of application.  
Keywords: Olea  
Keywords: Skin  
Keywords: Residues  
Keywords: Greece  
Keywords: Trees  
Keywords: Dosimetry  
Keywords: Sprays  
Keywords: Malathion  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Models  
Keywords: Insecticides  
Keywords: Toxicology Abstracts; Environment Abstracts  
Keywords: prediction models  
Keywords: X 24330:Agrochemicals English. Date revised - 2012-01-01. Last updated - 2012-10-19. DOI - 00799961-819c-4da4-90a5csaobj201; 14331028; 1438-4639. SubjectsTermNotLitGenreText - Skin; Insecticides; Trees; Dosimetry; Malathion; Models; Residues; prediction models; Sprays; Olea; Greece

649. Tsakiris, I.; Favas, C.; Tsatsakis, A.; Alegkakis, A.; Mitliagka, P.; Papathanasiou, F., and Niklis, N. Frequency and severity estimation of pesticide residues from organically cultivated olives and olive tree leafs in Greece, during 2008: Abstracts of the XII International Congress of Toxicology. 2010 Jul 17-; 196, Supplement, (0): S336.   
Rec #: 1250  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: http://www.sciencedirect.com/science/article/pii/S0378427410011926

650. Tsakiris, I.; Favas, C.; Tsatsakis, A.; Kokkinakis, M.; Mparbounis, M., and Kokkinaki, A. Pesticide residue assessment of Organically Cultivated Greek Virgin Olive Oil, during 2009: Abstracts of the XII International Congress of Toxicology. 2010 Jul 17-; 196, Supplement, (0): S336.   
Rec #: 1220  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: http://www.sciencedirect.com/science/article/pii/S0378427410011914

651. Tsakiris, Ioannis; Tsatsakis, Aristidis; Marnasidis, Simeon; Favas, Haralampos, and Alegakis, Athanasios. Estimation of the frequency and severity of plant protection products residues in Greek olive oil originates from organic cultivation of olives during 2008: Abstracts of the 46th Congress of the European Societies of Toxicology. 2009 Sep 13-; 189, Supplement, (0): S233.   
Rec #: 1230  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: http://www.sciencedirect.com/science/article/pii/S0378427409010169

652. Tsatsakis, Aristidis M. and Tsakiris, Ioannis N. Chapter 46 - Fenthion, Dimethoate and Other Pesticides in Olive Oils of Organic and Conventional Cultivation. Victor R. Preedy and Ronald Ross Watson. Olives and Olive Oil in Health and Disease Prevention. San Diego: Academic Press; 2010: 415-424.   
Rec #: 1330  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN   
Abstract: Publisher Summary ISSN/ISBN: 978-0-12-374420-3 http://www.sciencedirect.com/science/article/pii/B9780123744203000462

653. Tsiplakou, E; Anagnostopoulos, C J; Liapis, K; Haroutounian, Sa; Zervas, G, and Tsiplakou, E. Pesticides Residues in Milks and Feedstuff of Farm Animals Drawn From Greece. 2010 Jul; 80, (5): 504-512.   
Rec #: 6930  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The objective of this study was to investigate if milk from dairy sheep and goats, fed mainly with supplementary feed during the winter months, was contaminated with pesticides residues. Two hundred milk samples from sheep and goats were collected from 10 farms of each animals. The sheep and goats farms were selected from those which represent common conventional production and feeding systems in Greece. Milk and feed samples (alfalfa hay, wheat straw, shrubs, pasture and concentrates) were taken from each farm to analyze for pesticides residues. The results showed that the capital sigma endosulfan was the main pesticide residue which was detected in all the concentrates samples at a mean concentration of 5.36 mg kg super(-1), which is much higher from the maximum residue level (MRL). In addition, the capital sigma endosulfan was also detected in all the alfalfa hay samples but at a mean concentration of 0.10 mg kg super(-1) which is lower than the MRL. The mean concentrations of endosulfan alpha and beta were 2.82 and 2.39 mg kg super(-1) in the concentrates samples and 0.08 and 0.02 mg kg super(-1) respectively in alfalfa hay samples. In the wheat straw, shrubs and pasture samples no pesticides residues were detected. No pesticide residues were also detected in milk samples of sheep and goats. Thus, this milk from the farms sampled presents no human health risks as far as the contaminants analyzed concerned.  
Keywords: wheat  
Keywords: Milk  
Keywords: Greece  
Keywords: Feed  
Keywords: Pesticide residues  
Keywords: alfalfa  
Keywords: Q5 01502:Methods and instruments  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Pasture  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Environmental Studies  
Keywords: Public health  
Keywords: Feed composition  
Keywords: Triticum aestivum  
Keywords: farms  
Keywords: Pesticides  
Keywords: hay  
Keywords: Environment Abstracts; Pollution Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality  
Keywords: sheep  
Keywords: Feeds English. Date revised - 2011-10-01. Last updated - 2011-12-07. DOI - OB-ee8e5764-d1a2-481a-8ffdcsaobj202; 13146528; CS1115603; 0045-6535. SubjectsTermNotLitGenreText - Feed; Pesticides; Feed composition; Public health; wheat; Milk; Pesticide residues; farms; hay; alfalfa; sheep; Pasture; Feeds; Triticum aestivum; Greece

654. Turco, Laura; Catone, Tiziana; Caloni, Francesca; Consiglio, Emma Di; Testai, Emanuela; Stammati, Annalaura, and Turco, Laura. Caco-2/Tc7 Cell Line Characterization for Intestinal Absorption: How Reliable Is This in Vitro Model for the Prediction of the Oral Dose Fraction Absorbed in Human? 2011 Feb; 25, (1): 13-20.   
Rec #: 6610  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Caco-2 cell line is one of the most used in vitro model to study intestinal absorption of compounds at screening level. Several clones have been isolated from Caco-2 cell line and characterized for their activities. Among them, TC7 clone was isolated from a late passage of the parental Caco-2 line and has shown to consist of a more homogeneous population with respect to the most representative functions of the small intestinal enterocytes, with more developed intercellular junctions. On the basis of these characteristics, it was selected within the framework of the EU A-Cute-Tox project to check its suitability to predict intestinal transport. In the present study, drugs, synthetic or natural chemicals have been characterized for their absorption profile in TC7 cells cultivated on semi-permeable filters for 21days. The absorption experiments have been performed with the highest nontoxic concentration as determined in a preliminary set of cytotoxicity tests. The apparent permeability coefficient (P app) has been extrapolated by calculating the passage of the test compound from the donor to the receiver compartment as a time function. The samples have been collected at different time intervals and the concentration of the test compounds analyzed by analytical methods (HPLC, GC, GC/MS). The P app obtained with the TC7 clone are comparable to those obtained with the parental cell line. However, some drawbacks related to the experimental system have been highlighted (i.e. low mass balance, adsorption to the plastics), on the basis of which some compounds were excluded from the analysis. In order to check the predictability of the model, a regression analysis has been performed by plotting P app values vs. the fraction absorbed in humans (FA, expressed as % of the administered dose). Additional elaborations have highlighted that the specific absorption pathway (passive, active and carrier-mediated) and other factors (i.e. efflux proteins and/or metabolic activity) can strongly affect the robustness of the prediction model. On the basis of the obtained results, TC7 clone has shown to be a model for passive diffusion as reliable as the parental cell line. However, we have remarked the non-suitability of the TC7 cells to predict intestinal absorption: (i) for highly lipophilic compounds; (ii) for poorly absorbed compounds; or (iii) when transporter-mediated routes and/or first pass metabolism are involved. The preliminary study of those factors likely influencing compound biokinetics, as well as the characterization of the cellular model with respect to metabolic and transporter competence, would help in the interpretation of data.  
Keywords: High-performance liquid chromatography  
Keywords: Intestinal absorption  
Keywords: Pharmacy And Pharmacology  
Keywords: Data processing  
Keywords: Lipophilic  
Keywords: Filters  
Keywords: Permeability  
Keywords: Guanylate cyclase  
Keywords: Cytotoxicity  
Keywords: Intestine  
Keywords: Regression analysis  
Keywords: Adsorption  
Keywords: Diffusion  
Keywords: Plastics  
Keywords: Drugs  
Keywords: Toxicology Abstracts  
Keywords: X 24300:Methods  
Keywords: Enterocytes  
Keywords: Metabolism English. Date revised - 2011-10-01. Last updated - 2011-12-13. DOI - OB-b063e6b5-b338-428b-be38csamfg201; 14370740; 0887-2333. SubjectsTermNotLitGenreText - Intestinal absorption; High-performance liquid chromatography; Data processing; Lipophilic; Filters; Guanylate cyclase; Permeability; Cytotoxicity; Adsorption; Regression analysis; Intestine; Diffusion; Plastics; Drugs; Enterocytes; Metabolism

655. Tyler, P. S. and Binns, T. Laboratory Evaluation of Insecticides Against Susceptible and Malathion-Resistant Strains of Oryzaephilus surinamensis (L.) (Coleoptera, Silvanidae). 1975; 10 (PRESS).  
Rec #: 390  
Keywords: INCOMPLETE CITATION  
Notes: Chemical of Concern: MLN

656. U.S. Environmental Protection Agency. Proceedings of the First and Second USA-USSR Symposia on the Effects of Pollutants upon Aquatic Ecosystems. 1978: 412 p.   
Rec #: 1240  
Keywords: REVIEW  
Call Number: NO REVIEW (AZ,CN,Cu,HCNA,MLN,NH3)  
Notes: EcoReference No.: 66462  
Chemical of Concern: AZ,CN,Cu,DDT,EPRN,HCNA,MLN,NH3,PL,PRN,TXP

657. Uchimiya, Minori; Wartelle, Lynda H, and Boddu, Veera M. Sorption of Triazine and Organophosphorus Pesticides on Soil and Biochar. 2012 Mar 28; 60, (12): 2989-2997.   
Rec #: 2730  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Sorption and degradation are the primary processes controlling the efficacy and runoff contamination risk of agrochemicals. Considering the longevity of biochar in agroecosystems, biochar soil amendment must be carefully evaluated on the basis of the target agrochemical and soil types to achieve agricultural (minimum impact on efficacy) and environmental (minimum runoff contamination) benefits. In this study, sorption-desorption isotherms and kinetics of triazine (deisopropylatrazine) and organophosphorus (malathion, parathion, and diazinon) pesticides were first investigated on various soil types ranging from clayey, acidic Puerto Rican forest soil (PR) to heavy metal contaminated small arms range (SAR) soils of sandy and peaty nature. On PR, malathion sorption did not reach equilibrium during the 3 week study. Comparison of solution-phase molar phosphorus and agrochemical concentrations suggested that degradation products of organophosphorus pesticides were bound on soil surfaces. The degree of sorption on different soils showed the following increasing trend: deisopropylatrazine < malathion < diazinon < parathion. While sorption of deisopropylatrazine on SAR soils was not affected by diazinon or malathion, deisopropylatrazine suppressed the sorption of diazinon and malathion. Deisopropylatrazine irreversibly sorbed on biochars, and greater sorption was observed with higher Brunauer-Emmett-Teller surface area of biochar (4.7-2061 mg g(-1)). The results suggested the utility of biochar for remediation of sites where concentrations of highly stable and mobile agrochemicals exceed the water-quality benchmarks.  
Keywords: Charcoal  
Keywords: Water Pollutants  
Keywords: Soil Pollutants -- chemistry  
Keywords: Malathion  
Keywords: Soil Pollutants  
Keywords: Soil  
Keywords: 6-chloro-N-ethyl-1,3-5-triazine-2,4-diamine  
Keywords: Water Pollutants -- chemistry  
Keywords: Pesticides -- chemistry  
Keywords: Organophosphorus Compounds  
Keywords: Malathion -- chemistry  
Keywords: 333-41-5  
Keywords: Agrochemicals -- chemistry  
Keywords: Triazines -- chemistry  
Keywords: Diazinon -- chemistry  
Keywords: Index Medicus  
Keywords: Triazines  
Keywords: Organophosphorus Compounds -- chemistry  
Keywords: Agrochemicals  
Keywords: biochar  
Keywords: 0  
Keywords: Pesticides  
Keywords: 16291-96-6  
Keywords: Adsorption  
Keywords: 121-75-5  
Keywords: Soil -- chemistry  
Keywords: Diazinon  
Keywords: Charcoal -- chemistry eng. Date completed - 2012-08-31. Date created - 2012-03-28. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-22394556; 22394556; 1520-5118

658. Udagawa, T. Trebon, a New Insecticide. Agric. Chem. Lab.,Mitsui Toatsu Chem., Inc.,Japan//: 1986; 48, 23-26.   
Rec #: 400  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (DZ,EFX,FNV,MLN,MOM,PMR), NO REVIEW (DZ,EFX,FNV,MLN,MOM,PMR)  
Notes: Chemical of Concern: DZ,EFX,FNV,MLN,MOM,PMR

659. Uddin, Riaz; Iqbal, Sajid; Khan, Muhammad Farhanullah; Parveen, Zahida; Ahmed, Mubarik; Abbas, Muhammad, and Uddin, Riaz. Determination of Pesticide Residues in Rice Grain by Solvent Extraction, Column Cleanup, and Gas Chromatography-Electron Capture Detection. 2011 Jan; 86, (1): 83-89.   
Rec #: 6650  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: A simple, easy, cheap and efficient analytical method for determination of multiple pesticide residues including organochlorine, organophosphorus, synthetic pyrethroids and herbicides in rice grain by capillary gas chromatography is developed. The quantification of residues was done by capillary gas chromatography with a mu -ECD detector and a HP-5MS capillary column. Known amounts of a mixture of pesticides were added to grain prior to extraction, cleanup and GC-determination. Recoveries were checked at two fortification levels; 0.1 and 0.5 mu g/g. Qualitative and quantitative analysis were carried out based on the retention time and peak area basis. The results show that the average recovery of the analytical method for the fortified rice samples was in the range of 74%-111% and %RSD in the range of 2.41-12.42. The analytical method was used to analyze commercial rice grain samples.  
Keywords: Environment Abstracts; Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2011-02-01. Last updated - 2011-10-26. DOI - OB-b46da28f-7ca1-4fff-8635mfgefd108; 14210306; 0007-4861; 1432-0800

660. Uygun, Umran; Senoz, Berrin; Oeztuerk, Serpil; Koksel, Hamit, and Uygun, Umran. Degradation of Organophosphorus Pesticides in Wheat During Cookie Processing. 2009 Nov; 117, (2): 261-264.   
Rec #: 4590  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: For investigating carryover of some organophosphorus pesticide residues in the cereal food chain from grain to consumer, a study was set up on wheat bran, flour and cookies, with and without bran. Special emphasis was given to malathion and chlorpyrifos-methyl residues in cookies for better protection of consumers. Pesticide-free wheat was placed in a small-scale model of a commercial storage vessel and treated with these pesticides. The residue levels of insecticides were determined in wheat, as well as in bran, flour and cookies produced from stored wheat at various time intervals during storage. A multiresidue analysis was performed using GC-NPD and GC-MS. Malathion and chlorpyrifos-methyl residue levels were higher than the maximum residue limits (MRLs) in wheat after 240 days of storage. MRLs established by the EC for malathion and chlorpyrifos-methyl in wheat are 8 and 3 mg kg super(-1), respectively. The residue levels of insecticides in flour samples also exceeded the MRL (2 mg kg super(-1) for both insecticides). Eight months of storage were not effective for reducing the residues in wheat to the levels below MRLs. Although, considerable amounts of the insecticides remained in the bran and flour, the cookie processing significantly reduced the concentrations in general. Chlorpyrifos-methyl was more persistent than was malathion and comparatively less degradation occurred during milling and cookie processing due to its physicochemical properties.  
Keywords: Food processing  
Keywords: Pesticides (organophosphorus)  
Keywords: Food chains  
Keywords: Physicochemical properties  
Keywords: Malathion  
Keywords: Models  
Keywords: Triticum aestivum  
Keywords: Insecticides  
Keywords: Cereals  
Keywords: Grain  
Keywords: Consumers  
Keywords: X 24330:Agrochemicals  
Keywords: Toxicology Abstracts  
Keywords: Flour English. Date revised - 2009-07-01. Last updated - 2011-12-14. DOI - MD-0009882168; 9454747; 0308-8146. SubjectsTermNotLitGenreText - Triticum aestivum; Malathion; Insecticides; Flour; Consumers; Pesticides (organophosphorus); Food chains; Models; Food processing; Physicochemical properties; Cereals; Grain

661. Vald+\_s-Ram+¡rez, G.; Guti+\_rrez, M.; del Valle, M.; Ram+¡rez-Silva, M. T.; Fournier, D., and Marty, J.-L. Automated resolution of dichlorvos and methylparaoxon pesticide mixtures employing a Flow Injection system with an inhibition electronic tongue: Selected Papers from the Tenth World Congress on Biosensors Shangai, China, May 14-16, 2008. 2009 Jan 1-; 24, (5): 1103-1108.   
Rec #: 1640  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: An amperometric biosensor array has been developed to resolve pesticide mixtures of dichlorvos and methylparaoxon. The biosensor array has been used in a Flow Injection system, in order to operate automatically the inhibition procedure. The sensors used were three screen-printed amperometric biosensors that incorporated three different acetylcholinesterase enzymes: the wild type from Electric eel and two different genetically modified enzymes, B1 and B394 mutants, from Drosophila melanogaster. The inhibition response triplet was modelled using an Artificial Neural Network which was trained with mixture solutions that contain dichlorvos from 10êÆ4 to 0.1 ++M and methylparaoxon from 0.001 to 2.5 ++M. This system can be considered an inhibition electronic tongue. Bioelectronic tongue/ Dichlorvos/ Methylparaoxon/ Acetylcholinesterase/ Flow Injection Analysis/ Artificial Neural Networks http://www.sciencedirect.com/science/article/pii/S0956566308002698

662. Van Dyk, J. Susan and Pletschke, Brett. Review on the use of enzymes for the detection of organochlorine, organophosphate and carbamate pesticides in the environment. 2011 Jan; 82, (3): 291-307.   
Rec #: 980  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Pesticides are released intentionally into the environment and, through various processes, contaminate the environment. Three of the main classes of pesticides that pose a serious problem are organochlorines, organophosphates and carbamates. While pesticides are associated with many health effects, there is a lack of monitoring data on these contaminants. Traditional chromatographic methods are effective for the analysis of pesticides in the environment, but have limitations and prevent adequate monitoring. Enzymatic methods have been promoted for many years as an alternative method of detection of these pesticides. The main enzymes that have been utilised in this regard have been acetylcholinesterase, butyrylcholinesterase, alkaline phosphatase, organophosphorus hydrolase and tyrosinase. The enzymatic methods are based on the activation or inhibition of the enzyme by a pesticide which is proportional to the concentration of the pesticide. Research on enzymatic methods of detection, as well as some of the problems and challenges associated with these methods, is extensively discussed in this review. These methods can serve as a tool for screening large samples which can be followed up with the more traditional chromatographic methods of analysis. Acetylcholinesterase/ Acid phosphatase/ Aldehyde dehydrogenase/ Alkaline phosphatase/ Organophosphorus hydrolase/ Tyrosinase http://www.sciencedirect.com/science/article/pii/S0045653510011768

663. Varca, L. M. Pesticide residues in surface waters of Pagsanjan-Lumban catchment of Laguna de Bay, Philippines. 2012; 106, 35-41.   
Rec #: 16360  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The quality of the water of Laguna de Bay is been threatened by industrial and domestic activities in its western bay and agricultural activities in its eastern bay contribute to nutrient and pesticide discharges affecting the lake. A pesticide monitoring study of surface water of the Lucban River and Salasad Creek in the Pagsanjan-Lumban watershed of Laguna de Bay showed that some of the pesticides used by farmers to protect their crops from pests are being transported in drainage water. In the Lucban River, malathion was detected throughout the monitoring period from 2007 to 2009 at concentrations ranging from 0.005 mu g/L to 3.3 mu g/L. The detections of pesticides corresponded with times of pesticide application in the field. Profenofos was detected at concentrations of 0.5-15.3 mu g/L during 2008-2009 in water of Salasad Creek. The concentrations exceeded the (WHO, 2006) recommended level of 0.1 mu g/L for single pesticide in drinking water. There was no direct relationship between total suspended sediments and concentration of pesticides present in the surface water of Lucban River and Salasad Creek. Malathion and profenofos were transported from site of application to water bodies predominantly (>60%) in the soluble (<1.2 mu m) phase. Although the concentration of malathion increased in January with increasing rainfall the trend was not consistent throughout the study period. Measures to mitigate the off-site movement of malathion and profenofos to surface water need to be implemented to protect the quality of the eastern bay of the lake. This study shows that pesticide applications to crops very close to the water bodies, a common practice in the Philippines, is responsible for contamination of the creek and river, and a first step in reducing contamination would be improve practices in the areas closest to the drainage system, perhaps by introducing a narrow (3-5 m) riparian buffer zone in which spraying in not permitted. However, this strategy would have limited effectiveness for compounds that move predominantly in a soluble phase. (C) 2011 Elsevier B.V. All rights reserved.  
ISI Document Delivery No.: 929PO <Go to ISI>://CCC:000303078100006

664. Varca, Leonila M. Pesticide residues in surface waters of Pagsanjan-Lumban catchment of Laguna de Bay, Philippines: Assessing off-site migration of sediments and agrochemicals from agricultural/horticultural catchments in Philippines and Australia. 2012 Apr; 106, (0): 35-41.   
Rec #: 1340  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: The quality of the water of Laguna de Bay is been threatened by industrial and domestic activities in its western bay and agricultural activities in its eastern bay contribute to nutrient and pesticide discharges affecting the lake. A pesticide monitoring study of surface water of the Lucban River and Salasad Creek in the Pagsanjan-Lumban watershed of Laguna de Bay showed that some of the pesticides used by farmers to protect their crops from pests are being transported in drainage water. In the Lucban River, malathion was detected throughout the monitoring period from 2007 to 2009 at concentrations ranging from 0.005 ++g/L to 3.3 ++g/L. The detections of pesticides corresponded with times of pesticide application in the field. Profenofos was detected at concentrations of 0.5Çô15.3 ++g/L during 2008Çô2009 in water of Salasad Creek. The concentrations exceeded the (WHO, 2006) recommended level of 0.1 ++g/L for single pesticide in drinking water. There was no direct relationship between total suspended sediments and concentration of pesticides present in the surface water of Lucban River and Salasad Creek. Malathion and profenofos were transported from site of application to water bodies predominantly (&gt;60%) in the soluble (&lt;1.2 ++m) phase. Although the concentration of malathion increased in January with increasing rainfall the trend was not consistent throughout the study period. Measures to mitigate the off-site movement of malathion and profenofos to surface water need to be implemented to protect the quality of the eastern bay of the lake. This study shows that pesticide applications to crops very close to the water bodies, a common practice in the Philippines, is responsible for contamination of the creek and river, and a first step in reducing contamination would be improve practices in the areas closest to the drainage system, perhaps by introducing a narrow (3Çô5 m) riparian buffer zone in which spraying in not permitted. However, this strategy would have limited effectiveness for compounds that move predominantly in a soluble phase. Pesticide residues/ Surface water/ Off-site movement/ Total suspended sediments http://www.sciencedirect.com/science/article/pii/S0378377411001946

665. Vargas, Roger I.; Shelly, Todd E.; Leblanc, Luc, and Pi+\_ero, Jaime C. Chapter Twenty-Three - Recent Advances in Methyl Eugenol and Cue-Lure Technologies for Fruit Fly Detection, Monitoring, and Control in Hawaii. Gerald Litwack. Vitamins & Hormones: Pheromones. Volume 83 ed. Academic Press; 2010: 575-595.   
Rec #: 1370  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract ISSN/ISBN: 0083-6729 http://www.sciencedirect.com/science/article/pii/S0083672910830237

666. Vighi, M.; Garlanda, M. M., and Calamari, D. QSARs for Toxicity of Organophosphorous Pesticides to Daphnia and Honeybees. 1991; 109-110, 605-622.   
Rec #: 920  
Keywords: NO CONC,QSAR,REFS CHECKED  
Call Number: NO CONC (ACP,CPYM,DCTP,DDVP,DMT,DZ,GYP,MLN,MP,PIRM,PRT,TBO,TCF,TVP), NO QSAR (ACP,CPYM,DCTP,DDVP,DMT,DZ,GYP,MLN,MP,PIRM,PRT,TBO,TCF,TVP), NO REFS CHECKED (ACP,CPYM,DCTP,DDVP,DMT,DZ,GYP,MLN,MP,PIRM,PRT,TBO,TCF,TVP)  
Notes: Chemical of Concern: ACP,CPYM,DCTP,DDVP,DMT,DZ,EPRN,FNTH,GYP,MLN,MP,PIRM,PPHD,PRN,PRT,TBO,TCF,TVP

667. Violante, F G M; Bastos, L H P; Cardoso, M H W M; Rodrigues, J M; GouvăŞa, a V; Borges, C N; Santos, P R Da F; Santos, D Da S; GăłEs, H C De a; Souza, V; De SăŁO Josă©, a; Bandeira, R D C C; Cunha, V, and NăłBrega, a. Proficiency Testing for the Determination of Pesticides in Mango Pulp: a View of the Employed Chromatographic Techniques and the Evaluation of Laboratories' Performance. 2009 Oct; 47, (9): 833-839.   
Rec #: 7400  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The proficiency testing for determination of pesticides residues in mango pulp was the third work of the partnership established by INMETRO and INCQS/Fiocruz. Three mango pulp samples were sent to each participant laboratory, two being spiked with the pesticides and one exempt of pesticides. The added pesticides were: deltamethrin, ethion, fenitrothion, malathion, and permethrin. The evaluation of the results of the homogeneity and the stability tests, as well as the determination of the assigned value was made in agreement with ISO GUIDE 35 and ISO 13528, assuming the samples were considered homogeneous and stable for the studied period. The assigned values and the standard deviation for proficiency evaluation was calculated using the robust algorithm, according to ISO 13528, and the evaluation of the results was carried through in accordance with ABNT ISO/IEC Guide 43-1. The z-score graphs and confidence ellipse was also used in the evaluation of the results. In the evaluation carried through from the values of the z-scores, 71% of the reported results were considered satisfactory based on the results found for this index. The evaluation of the analytical viability for the determination of each pesticide and of the analytical capacity of the participant laboratories was carried through. A summarized view of the chromatographic techniques and of preparation of sample used by the participant laboratories was also carried through in this work.  
Keywords: Clinical Laboratory Techniques  
Keywords: 0  
Keywords: Index Medicus  
Keywords: Chromatography -- methods  
Keywords: Pesticide Residues  
Keywords: Pesticide Residues -- analysis  
Keywords: Mangifera -- chemistry eng. Date completed - 2010-01-11. Date created - 2009-10-19. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-19835699; 19835699; 1945-239X

668. Von Rumker, R.; Lawless, E. W.; Meirers, A. F.; Lawrence, K. A.; Kelso, G. L., and Horay, F. Production, Distribution, Use and Environmental Impact Potential of Selected Pesticides. 1974: 453 (NTIS/PB-238795).   
Rec #: 1250  
Keywords: REVIEW  
Call Number: NO REVIEW (24D,24DXY,ACR,ATZ,BMC,CBF,CBL,CST,Captan,DCB,DS,DU,DZ,MB,MLN,MP,Maneb,PCP,TFN)  
Notes: EcoReference No.: 45777  
Chemical of Concern: 24D,24DXY,ACR,AND,ATZ,BMC,CBF,CBL,CHD,CST,Captan,DCB,DS,DU,DZ,EPRN,MB,MLN,MP,MSMA,Maneb,NaClO,PCP,PL,PRN,TFN,TX,TXP

669. Vonderheide, Anne P; Bernard, Craig E; Hieber, Thomas E; Kauffman, Peter E; Morgan, Jeffrey N; Melnyk, Lisa Jo, and Vonderheide, Anne P. Surface-to-Food Pesticide Transfer as a Function of Moisture and Fat Content. 2009 Jan; 19, (1): 97-106.   
Rec #: 7870  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Transfer of pesticides from household surfaces to foods may result in excess dietary exposure in children (i.e., beyond that inherent in foods due to agricultural application). In this study, transfer was evaluated as a function of the moisture and fat content of various foods. Surfaces chosen for investigation were those commonly found in homes and included Formica super( registered ), ceramic tile, plastic, carpet, and upholstery fabric. Each surface type was sprayed with an aqueous emulsion of organophosphates, fipronil, and synthetic pyrethroids. In the first phase of the study, multiple foods (apples, watermelon, wheat crackers, graham crackers, white bread, flour tortillas, bologna, fat-free bologna, sugar cookies, ham, Fruit Roll-ups super( registered ), pancakes, and processed American cheese) were categorized with respect to moisture and fat content. All were evaluated for potential removal of applied pesticides from a Formica surface. In the second phase of the study, representative foods from each classification were investigated for their potential for pesticide transfer with an additional four surfaces: ceramic tile, plastic, upholstery, and carpet. Moisture content, not fat, was found to be a determining factor in most transfers. For nearly all surfaces, more efficient transfer occurred with increased hardness (Formica and ceramic tile). Comparatively, the polymer composition of the plastic delivered overall lower transfer efficiencies, presumably due to an attraction between it and the organic pesticides of interest.Journal of Exposure Science and Environmental Epidemiology (2009) 19, 97-106; doi:10.1038/jes.2008.6; published online 16 April 2008  
Keywords: Toxicology Abstracts  
Keywords: Environmental Studies English. Date revised - 2010-09-01. Last updated - 2011-11-06. DOI - OB-0ad5634d-2ce1-4a4a-bd0cmfgefd101; 13653137; 1559-0631

670. Vorob'eva, V. V.; Zarubina, I. V., and Shabanov, P. D. [Protective Effects of Metaprot and Ethomerzol in Carbophos Intoxications].   
Rec #: 8460  
Keywords: NON-ENGLISH  
Notes: Chemical of Concern: MLN   
Abstract: ABSTRACT: The mechanisms of protective action of thiobenzimidazole derivatives metaprot and ethomerzol (25 and 50 mg/kg) have been studied on a model of carbophos intoxication (256.0 +/- 8.7 mg/kg) in rats. Both compounds recovered the resistance to physical loads in forced swimming test, normalized the activity of aspartate and alanine transaminases, and reduced bilirubin, creatinine, and urea nitrogen levels in the blood serum. The intoxication was accompanied with increasing concentration of malonic dialdehyde and decreasing level of recovered glutation in the blood, as well as with the signs of endogenic intoxication. Metaprot and ethomerzol diminished disorders of both the lipid peroxidation and endogenic intoxication processes. Thus, the antihypoxic, antioxidant, actoprotective, energotropic, and reparative effects of metaprot and ethomerzol have been proved. Ethomerzol was more effective than metaprot in these tests.  
MESH HEADINGS: Alanine Transaminase/blood  
MESH HEADINGS: Animals  
MESH HEADINGS: Antioxidants/administration &amp  
MESH HEADINGS: dosage/\*therapeutic use  
MESH HEADINGS: Aspartate Aminotransferases/blood  
MESH HEADINGS: Benzimidazoles/administration &amp  
MESH HEADINGS: dosage/\*therapeutic use  
MESH HEADINGS: Bilirubin/blood  
MESH HEADINGS: Blood Urea Nitrogen  
MESH HEADINGS: Creatinine/blood  
MESH HEADINGS: Dose-Response Relationship, Drug  
MESH HEADINGS: Glutathione/blood  
MESH HEADINGS: Insecticides/\*toxicity  
MESH HEADINGS: Lipid Peroxidation/drug effects  
MESH HEADINGS: Liver/drug effects/metabolism  
MESH HEADINGS: Malathion/\*toxicity  
MESH HEADINGS: Male  
MESH HEADINGS: Malondialdehyde/metabolism  
MESH HEADINGS: Rats  
MESH HEADINGS: Rats, Wistar  
MESH HEADINGS: Swimming rus

671. Vukovi-ç, Gorica; Shtereva, Deyana; Bursi-ç, Vojislava; Mladenova, Rositsa, and Lazi-ç, Sanja. Application of GCÇôMSD and LCÇôMS/MS for the determination of priority pesticides in baby foods in Serbian market: Euro-Mediterranean Symposium on Fruit and Vegetable Processing. 2012 Dec; 49, (2): 312-319.   
Rec #: 830  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Babies and small children are especially sensitive population to the exposure to environmental contaminants. Their small mass and developing systems, including brain development may show adverse health effects from even low levels of contamination on a chronic or single dose case. In this paper one extraction method and two chromatographic techniques for the determination of pesticide residues in baby food were evaluated. A liquid chromatographyÇôtandem mass spectrometry technique combined with electrospray ionization (ESI), (LCÇôMS/MS) and gas chromatographyÇômass spectrometry detection (GCÇôMSD) technique were applied in the detection of 50 pesticides in baby food. So-called QuEChERS (quick, easy, cheap, effective, rugged and safe) method was used as a sample preparation procedure. The recoveries were investigated at three levels (5, 10 and 50-á++g/kg) and the results obtained showed compliance with the contemporary EU requirements with a few exceptions. LOQs for most of the tested pesticides were below the EU MRLs (10-á++g/kg), except deltamethrin, cypermethrin, fenvalerate, phosalone and beta-cyfluthrin (LOQs were 10-á++g/kg). Both techniques were applied in the analysis of 50 samples of baby food manufactured in Serbia. Pesticide residues/ Baby food/ QuEChERS/ LCÇôMS/MS/ GCÇôMSD http://www.sciencedirect.com/science/article/pii/S0023643812003052

672. Waggoner, Jenna K; Henneberger, Paul K; Kullman, Greg J; Umbach, David M; Kamel, Freya; Beane Freeman, Laura E; Alavanja, Michael Cr; Sandler, Dale P; Hoppin, Jane a, and Waggoner, Jenna K. Pesticide Use and Fatal Injury Among Farmers in the Agricultural Health Study. 2013 Feb; 86, (2): 177-187.   
Rec #: 5460  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Purpose: To assess whether pesticide use practices were associated with injury mortality among 51,035 male farmers from NC and IA enrolled in the Agricultural Health Study. Methods: We used Cox proportional hazards models adjusted for age and state to estimate fatal injury risk associated with self-reported use of 49 specific pesticides, personal protective equipment, specific types of farm machinery, and other farm factors collected 1-15 years preceding death. Cause-specific mortality was obtained through linkage to mortality registries. Results: We observed 338 injury fatalities over 727,543 person-years of follow-up (1993-2008). Fatal injuries increased with days/year of pesticide application, with the highest risk among those with 60+ days of pesticide application annually [hazard ratio (HR) = 1.87; 95% confidence interval (CI) = 1.10, 3.18]. Chemical-resistant glove use was associated with decreased risk (HR = 0.73; 95% CI = 0.58, 0.93), but adjusting for glove use did not substantially change estimates for individual pesticides or pesticide use overall. Herbicides were associated with fatal injury, even after adjusting for operating farm equipment, which was independently associated with fatal injury. Ever use of five of 18 herbicides (2,4,5-T, paraquat, alachlor, metribuzin, and butylate) were associated with elevated risk. In addition, 2,4-D and cyanazine were associated with fatal injury in exposure-response analyses. There was no evidence of confounding of these results by other herbicides. Conclusion: The association between application of pesticides, particularly certain herbicides, and fatal injuries among farmers should be interpreted cautiously but deserves further evaluation, with particular focus on understanding timing of pesticide use and fatal injury.  
Keywords: Occupational Health And Safety  
Keywords: Health & Safety Science Abstracts English. Date revised - 2013-03-01. Last updated - 2013-03-28. DOI - OB-bd1a96f6-c7fc-4ba5-8cccmfgefd108; 17681522; 0340-0131; 1432-1246

673. Walker, W. W. and Stojanovic, B. J. Acetylcholinesterase Toxicity of Malathion and Its Metabolites. 1973; 2, (4): 474-475.   
Rec #: 1510  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN

674. Walmsley, Richard M. and Billinton, Nicholas. Genotoxic carcinogen or not genotoxic carcinogen? That is the question: Re: Olaharski et al., ÇŁValidation of the GreenScreen GADD45+\_-GFP indicator assay with non-proprietary and proprietary compoundsÇĄ. 2009 Jan 10-; 672, (1): 17-19.   
Rec #: 1490  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: http://www.sciencedirect.com/science/article/pii/S1383571808002982

675. Walz, Ingrid and Schwack, Wolfgang. Cutinase inhibition by means of insecticidal organophosphates and carbamates Part 2: screening of representative insecticides on cutinase activity. 2008; 226, 1135-1143.   
Rec #: 11470  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: Representative organophosphorus and carbamate insecticides were subjected to a recently developed, efficient spectrophotometric cutinase assay. The inactivation ability of ten organophosphate oxons [chlorpyrifos oxon, chlorpyrifos-methyl oxon, paraoxon, paraoxon-methyl, malaoxon, dichlorvos, monocrotophos, chlorfenvinphos, demeton-S-methyl, acephate], five organophosphate thions [chlorpyrifos, chlorpyrifos-methyl, parathion, parathion-methyl, malathion] and six carbamates [methomyl, carbaryl, propoxur, carbofuran, ethiofencarb, pirimicarb] was examined and characterized in terms of inhibitory rate constants. Regarding their strengths as cutinase inhibitors, organophosphate oxons were found to exceed by far the corresponding thions, whereas ethyl esters proved to be superior to their methyl analogues. Chlorpyrifos oxon with an inhibition constant k i of 9.4 x 10Ă˘ÂÂµ L/(mol min) was identified as strongest cutinase inhibitor, resulting in a detection limit of 2 ĂŽÂĽg/L (standard solution/sample extract). As novel result it is established that also carbamates are cutinase inhibitors, though of minor strength as compared to organophosphate oxons. Most efficient carbamates are methomyl and carbaryl with inhibition constants of 7.5 x 10Ă‚Â˛ and 2.6 x 10Ă‚Â˛ L/(mol min), respectively, i.e., well in the range of organophosphorous insecticides.  
Keywords: Enzyme assay  
Number of Volumes: 5  
Berlin/Heidelberg : Springer-Verlag http://dx.doi.org/10.1007/s00217-007-0642-8

676. Wananukul, S.; Chatproedprai, S.; Tempark, T., and Wananukul, W. Clinical Response and Safety of Malathion Shampoo for Treatment of Head Lice in a Primary School.   
Rec #: 9140  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: OBJECTIVE: Help eradicate or at least alleviating head lice in a primary school with malathion shampoo and to study clinical response and safety of malathion shampoo.  
ABSTRACT: MATERIAL AND METHOD: All students were examined by using a fine-toothed lice comb to help detect live lice. Direct visual examination and the collection of nits for microscopic examination were performed to differentiate viable nits from empty nits. Diagnosis of head lice was made by the presence of lice. All students that had lice and/or nits were treated with malathion shampoo. Malathion shampoo was also provided for all family members. Pediculocidal efficacy was by the presence or absence of live lice. Blood for red blood cell cholinesterase activity was drawn in 32 volunteers before treatment and after the second treatment.  
ABSTRACT: RESULTS: At the first visit, 629 students were examined and 48 students had live head lice. The infestation rate was 13% in girls and 1.3% in boys. The cure rate was 93% after the first treatment. The reported side effects were nausea, a burning sensation, and irritation that was found in five (4%), 10 (7%) and three (2%) students respectively. The mean of RBC cholinesterase activity before and after two applications showed significant changes (p = 0.03). It was -7.5 +/- 4.1% reduction from the initial, but all were in the normal range. There was no report of clinical manifestation of malathion toxicity.  
ABSTRACT: CONCLUSION: Malathion shampoo is safe and effective in the treatment of head lice. There is significant skin absorption so a scalp examination for head lice should be done before subsequent application to avoid unnecessary exposure.  
MESH HEADINGS: Adolescent  
MESH HEADINGS: Animals  
MESH HEADINGS: Biological Markers  
MESH HEADINGS: Child  
MESH HEADINGS: Cholinesterases/blood  
MESH HEADINGS: Female  
MESH HEADINGS: Follow-Up Studies  
MESH HEADINGS: Humans  
MESH HEADINGS: Insecticides/\*adverse effects/therapeutic use  
MESH HEADINGS: Lice Infestations/diagnosis/\*drug therapy  
MESH HEADINGS: Malathion/\*adverse effects/therapeutic use  
MESH HEADINGS: Male  
MESH HEADINGS: Pediculus/\*drug effects  
MESH HEADINGS: Scalp Dermatoses/diagnosis/\*drug therapy  
MESH HEADINGS: Schools  
MESH HEADINGS: Students  
MESH HEADINGS: Treatment Outcome eng

677. Wang, Jun-Liang; Xia, Qing; Zhang, an-Ping; Hu, Xiao-Yan, and Lin, Chun-Mian. Determination of Organophosphorus Pesticide Residues in Vegetables by an Enzyme Inhibition Method Using [Alpha]-Naphthyl Acetate Esterase Extracted From Wheat Flour. 2012 Apr; 13, (4): 267-73.   
Rec #: 5830  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The widespread use of organophosphorus pesticides (OPs) poses a great threat to human health and has made the detection of OP residues in food an important task, especially in view of the fact that easy and rapid detection methods are needed. Because OPs have inhibitory effects on the activity of Î±-naphthyl acetate esterase (ANAE) in plants, in this work we evaluated the possibility of detecting OPs in vegetables with ANAE extracted from commercial flour. The limits of detection (LODs) obtained for methamidophos, dichlorvos, phoxim, dimethoate, and malathion in lettuce samples with crude ANAE were 0.17, 0.11, 0.11, 0.96, and 1.70 mg/kg, respectively. Based on the maximum residue limits (MRLs) for OPs in food stipulated by Chinese laws which are 0.05, 0.20, 0.05, 1.00, and 8.00 mg/kg for methamidophos, dichlorvos, phoxim, dimethoate, and malathion, respectively, the esterase inhibition method with crude ANAE had sufficient sensitivity to detect the residues of dichlorvos, dimethoate, and malathion in lettuce, but it could not be used to guarantee the safety of the same samples if methamidophos or phoxim residue was present. The sensitivity of the method was improved by the use of esterase purified by ammonium sulfate salting-out. The LODs obtained for methamidophos and phoxim with purified esterase were lower than the MRLs for these OPs in food. This is a very promising method for the detection of OP residues in vegetables using crude or purified esterase because of its cheapness, sensitivity, and convenience.[PUBLICATION ABSTRACT]  
Keywords: Pesticides -- analysis  
Keywords: Organophosphorus Compounds -- analysis  
Keywords: Plant Extracts  
Keywords: Food Contamination -- analysis  
Keywords: Organophosphorus Compounds -- chemistry  
Keywords: Plant Extracts -- chemistry  
Keywords: Pesticides -- chemistry  
Keywords: Food Analysis -- methods  
Keywords: Organophosphorus Compounds  
Keywords: Vegetables -- chemistry  
Keywords: Pesticides  
Keywords: Medical Sciences  
Keywords: Naphthol AS D Esterase -- chemistry  
Keywords: Flour  
Keywords: Triticum -- enzymology  
Keywords: Naphthol AS D Esterase English. Copyright - Zhejiang University and Springer-Verlag Berlin Heidelberg 2012. Last updated - 2013-05-22. DOI - 2624408431; 68337492; 138046; JZHV; 22467368; SPVLJZHV115851343191

678. Wang, Kemin ; Yang, Dongzhi; Xiao, Ming; Chen, Xiangmei; Lu, Fengmin, and Nie, Jun. Sesamin as a co-initiator for unfilled dental restorations. 2009 Sep; 5, (7): 2508-2517.   
Rec #: 2290  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: A natural component, sesamin (SA), was used to replace conventional amine as co-initiator for dental composite. A combination of camphorquinone (CQ) and SA was employed to initiate the photopolymerization of 2-2-bis[4-(2-hydroxy-3-methacryloxyprop-1-oxy)phenyl] propane/triethylene glycol dimethacrylate (70/30 wt.%). The kinetics was recorded by real-time Fourier transform infrared spectroscopy. The mechanical properties were measured by dynamic mechanical analysis, the cell toxicity was investigated by MTT assay and a mixture of CQ and ethyl 4-N,N-dimethylaminobenzoate (EDMAB) was used as control in the same photocuring condition. The results indicated that the addition of SA as co-initiator greatly improved the rate of polymerization and final double-bond conversion (DC) when compared with the system initiated by CQ alone. Compared with EDMAB, the final DC of the CQ/SA system (71%) was slightly lower than that of CQ/EDMAB (76%); SA resulted in approximately the same storage modulus at around 37 -\_C, but a slightly higher glass transition temperature. SA produced lower yellowing effect and good in vitro biocompatibility. The water sorption and solubility for two mixtures were very close and within the range of the ISO 4049 specification. These results suggest that SA is an effective alternative co-initiator to conventional amine. The natural compound characteristics of SA make it more promising than amine in dental resin formulations. Dental composite/ FTIR/ Mechanical property/ Polymerization/ MTT http://www.sciencedirect.com/science/article/pii/S174270610900110X

679. Wang, X. L.; Qiao, X. G.; Ma, Y.; Zhao, T., and Xu, Z. X. Simultaneous Determination of Nine Trace Organophosphorous Pesticide Residues in Fruit Samples Using Molecularly Imprinted Matrix Solid-Phase Dispersion Followed by Gas Chromatography. 2013; 61, 3821-3827.   
Rec #: 16430  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: How to determine trace multipesticide residues in fruits is an important problem. This paper reports a molecularly imprinted polymer (MIP) that was prepared using 4-(dimethoxyphosphorothioylamino)butanoic acid as the template, acrylamide as the functional monomer, and ethylene glycol dimethacrylate (EGDMA) as the cross-linker. The novel imprinted polymer was characterized by static and kinetic adsorption experiments, and it exhibited good recognition ability and fast adsorption-desorption dynamicd toward trichlorfon, malathion, acephate, methamidophos, omethoate, dimethoate, phosphamidon, monocrotophos, and methyl parathion. Using this imprinted polymer as sorbent, matrix solid-phase dispersion coupled to gas chromatography for simultaneous determination of nine trace organophosphorus pesticide residues was first presented. Under the optimized conditions, the LOD (S/N = 3) of this method for the nine organophosphorus was 0.3-1.6 mu g kg(-1); the RSD for three replicate extractions ranged from 1.2 to 4.8%. The apple and pear samples spiked with nine organophosphate pesticides at levels of 20 and 100 mu g kg(-1) were determined according to this method with good recoveries ranging from 81 to 105%. Moreover, this developed method was successfully applied to the quantitative detection of the nine organophosphorus pesticide residues in orange samples.  
Number of Volumes: 16  
ISI Document Delivery No.: 134IX <Go to ISI>://CCC:000318204700008

680. Wang, Yonggang; Aker, Winfred G.; Hwang, Huey-min; Yedjou, Clement G.; Yu, Hongtao, and Tchounwou, Paul B. A study of the mechanism of in vitro cytotoxicity of metal oxide nanoparticles using catfish primary hepatocytes and human HepG2 cells. 2011 Oct 15-; 409, (22): 4753-4762.   
Rec #: 900  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Nanoparticles (NPs), including nanometal oxides, are being used in diverse applications such as medicine, clothing, cosmetics and food. In order to promote the safe development of nanotechnology, it is essential to assess the potential adverse health consequences associated with human exposure. The liver is a target site for NP toxicity, due to NP accumulation within it after ingestion, inhalation or absorption. The toxicity of nano-ZnO, TiO2, CuO and Co3O4 was investigated using a primary culture of channel catfish hepatocytes and human HepG2 cells as in vitro model systems for assessing the impact of metal oxide NPs on human and environmental health. Some mechanisms of nanotoxicity were determined by using phase contrast inverted microscopy, 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT) assays, reactive oxygen species (ROS) assays, and flow cytometric assays. Nano-CuO and ZnO showed significant toxicity in both HepG2 cells and catfish primary hepatocytes. The results demonstrate that HepG2 cells are more sensitive than catfish primary hepatocytes to the toxicity of metal oxide NPs. The overall ranking of the toxicity of metal oxides to the test cells is as follows: TiO2 &lt; Co3O4 &lt; ZnO &lt; CuO. The toxicity is due not only to ROS-induced cell death, but also to damages to cell and mitochondrial membranes. Cytotoxicity/ Nanoparticle/ Metal oxide/ Catfish/ Primary hepatocyte/ HepG2 cell http://www.sciencedirect.com/science/article/pii/S0048969711007571

681. Wang, Yuanfeng and Du, Ran. Simultaneous extraction of trace organophosphorous pesticides from plasma sample by automated solid phase extraction and determination by gas chromatography coupled with pulsed flame photometric detector: The 47th International Conference of the International Association of Forensic Toxicologists (TIAFT). 2010 May 20-; 198, (1Çô3): 70-73.   
Rec #: 2270  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: The purpose of our work was to develop a simple and efficient analytical method for simultaneous determination of different species of organic phosphorus pesticides from plasma sample by using automated solid phase extraction (SPE) and gas chromatography/pulsed flame photometric detector (GC/PFPD) as a diagnostic tool. Firstly, the developed extraction method was validated using 5 certified reference materials; then, it was applied to plasma sample. Such factors as the category and volume of wash and elution solvent were examined separately. Among these factors, the category of elution solvent is most important. HexaneÇôacetone (50:50, v/v) seems to be the best choice for it. The eluent was evaporated on a nitrogen stream at room temperature and redissolved by acetone. 1 ++L of aliquots was chromatographed on GC/PFPD. Response versus the amount of pesticides injected ranging from 0.05 to 2 ng showed a good linearity. The detection limits were 0.01 ng for dimethoate, 0.03 ng for methyl-parathion and malathion, 0.04 ng for terbufos and 0.02 ng for parathion. Extraction recoveries range from 84.3% to 109.1%.This extraction method for multispecies analysis incorporates many benefits in terms of speed, low solvent use, accuracy of measurement, sensitivity, relative simplicity, as well as the time saving and convenience of multiple species measurement through sample preparation and analysis as an integrated step. Organophosphorous pesticides/ SPE/ GC/PFPD/ Plasma sample http://www.sciencedirect.com/science/article/pii/S0379073809005544

682. Wenger, B. S. Protease Inhibition as a Teratogenic Mechanism. 1974; 14, (4): 1305-(ABS).   
Rec #: 410  
Keywords: ABSTRACT  
Notes: Chemical of Concern: DCTP,MLN

683. Wiley, J. S.; Garcia-Reyes, J. F.; Harper, J. D.; Charipar, N. A.; Ouyang, Z., and Cooks, R. G. Screening of agrochemicals in foodstuffs using low-temperature plasma (LTP) ambient ionization mass spectrometry. 2010; 135, 971-979.   
Rec #: 16480  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Low-temperature plasma (LTP) permits direct ambient ionization and mass analysis of samples in their native environment with minimal or no prior preparation. LTP utilizes dielectric barrier discharges (DBDs) to create a low power plasma which is guided by gas flow onto the sample from which analytes are desorbed and ionized. In this study, the potential of LTP-MS for the detection of pesticide residues in food is demonstrated. Thirteen multi-class agricultural chemicals were studied (ametryn, amitraz, atrazine, buprofezin, DEET, diphenylamine, ethoxyquin, imazalil, isofenphosmethyl, isoproturon, malathion, parathion-ethyl and terbuthylazine). To evaluate the potential of the proposed approach, LTP-MS experiments were performed directly on fruit peels as well as on fruit/vegetable extracts. Most of the agrochemicals examined displayed remarkable sensitivity in the positive ion mode, giving limits of detection (LOD) for the direct measurement in the low picogram range. Tandem mass spectrometry (MS/MS) was used to confirm identification of selected pesticides by using for these experiments spiked fruit/vegetable extracts (QuEChERS, a standard sample treatment protocol) at levels as low as 1 pg, absolute, for some of the analytes. Comparisons of the data obtained by direct LTP-MS were made with the slower but more accurate conventional LC-MS/MS procedure. Herbicides spiked in aqueous solutions were detectable at LODs as low as 0.5 mg L(-1) without the need for any sample preparation. The results demonstrate that ambient LTP-MS can be applied for the detection and confirmation of traces of agrochemicals in actual market-purchased produce and in natural water samples. Quantitative analysis was also performed in a few selected cases and displayed a relatively high degree of linearity over four orders of magnitude.  
Number of Volumes: 5  
ISI Document Delivery No.: 588AG <Go to ISI>://CCC:000277037500018

684. Wille, Timo; Thiermann, Horst, and Worek, Franz. In Vitro Kinetic Interactions of Deet, Pyridostigmine and Organophosphorus Pesticides With Human Cholinesterases. 2011 Apr 25; 190, (2-3): 79-83.   
Rec #: 3510  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The simultaneous use of the repellent DEET, pyridostigmine, and organophosphorus pesticides has been assumed as a potential cause for the Gulf War Illness and combinations have been tested in different animal models. However, human in vitro data on interactions of DEET with other compounds are scarce and provoked the present in vitro study scrutinizing the interactions of DEET, pyridostigmine and pesticides with human acetylcholinesterase (hAChE) and butyrylcholinesterase (hBChE). DEET showed to be a weak and reversible inhibitor of hAChE and hBChE. The IC(50) of DEET was calculated to be 21.7mM DEET for hAChE and 3.2mM DEET for hBChE. The determination of the inhibition kinetics of pyridostigmine, malaoxon and chlorpyrifos oxon with hAChE in the presence of 5mM DEET resulted in a moderate reduction of the inhibition rate constant k(i). The decarbamoylation velocity of pyridostigmine-inhibited hAChE was not affected by DEET. In conclusion, the in vitro investigation of interactions between human cholinesterases, DEET, pyridostigmine, malaoxon and chlorpyrifos oxon showed a weak inhibition of hAChE and hBChE by DEET. The inhibitory potency of the tested cholinesterase inhibitors was not enhanced by DEET and it did not affect the regeneration velocity of pyridostigmine-inhibited AChE. Hence, this in vitro study does not give any evidence of a synergistic effect of the tested compounds on human cholinesterases. Copyright Â© 2011 Elsevier Ireland Ltd. All rights reserved.  
Keywords: Cholinesterase Inhibitors -- pharmacology  
Keywords: 2921-88-2  
Keywords: Drug Interactions  
Keywords: Acetylcholinesterase  
Keywords: Cholinesterase Inhibitors -- chemistry  
Keywords: Humans  
Keywords: Pyridostigmine Bromide -- pharmacology  
Keywords: Butyrylcholinesterase  
Keywords: Chlorpyrifos -- pharmacology  
Keywords: Malathion -- analogs & derivatives  
Keywords: 134-62-3  
Keywords: Malathion  
Keywords: Pesticides -- chemistry  
Keywords: Organophosphorus Compounds  
Keywords: Malathion -- chemistry  
Keywords: Acetylcholinesterase -- metabolism  
Keywords: Pyridostigmine Bromide  
Keywords: EC 3.1.1.7  
Keywords: Pyridostigmine Bromide -- chemistry  
Keywords: malaoxon  
Keywords: EC 3.1.1.-  
Keywords: Chlorpyrifos -- chemistry  
Keywords: Index Medicus  
Keywords: Pesticides -- pharmacology  
Keywords: Organophosphorus Compounds -- chemistry  
Keywords: O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphate  
Keywords: DEET -- chemistry  
Keywords: DEET -- pharmacology  
Keywords: 101-26-8  
Keywords: Chlorpyrifos  
Keywords: Malathion -- pharmacology  
Keywords: Cholinesterase Inhibitors  
Keywords: 0  
Keywords: DEET  
Keywords: Kinetics  
Keywords: 5598-15-2  
Keywords: Chlorpyrifos -- analogs & derivatives  
Keywords: Pesticides  
Keywords: 1634-78-2  
Keywords: 121-75-5 eng. Date completed - 2011-07-26. Date created - 2011-04-25. Date revised - 2012-12-20. SuppNotes - Comment In: Chem Biol Interact. 2011 Aug 15;193(1):107; author reply 108[21473857]. Last updated - 2013-01-19. DOI - MEDL-21354413; 21354413; 1872-7786

685. Wilnai, Y.; Seaver, L. H., and Enns, G. M. Atypical Amyoplasia Congenita in an Infant With Leigh Syndrome: A Mitochondrial Cause of Severe Contractures? 2012; 158A, 2353-2357.   
Rec #: 16500  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Amyoplasia congenita is a distinct form of arthrogryposis with characteristic features including internally rotated and adducted shoulders, extended elbows, flexion, and ulnar deviation of the wrists, and adducted thumbs. Fetal hypokinesia, secondary to a variety of genetic conditions, neuromuscular disorders, and environmental agents, is associated with contractures. In order to increase our understanding of the phenotypic spectrum associated with SURF 1 deficiency, a common cause of mitochondrial respiratory chain complex IV deficiency and Leigh syndrome, we describe a now 6-year-old boy who presented in the neonatal period with amyoplasia congenita. His development was normal until age 10.5 months, at which time he developed severe hypotonia and choreoathetosis following an episode of viral gastroenteritis. Following the onset of neurological symptoms, he gradually developed severe kyphosis and lower limb contractures. Blood and cerebrospinal fluid lactate levels were elevated and head imaging showed characteristic features of Leigh syndrome. He was found to harbor two pathogenic heterozygous mutations in the SURF 1 gene. In this case, mitochondrial dysfunction and the resultant energy deficiency may have played a role in causing abnormal neuronal development during embryogenesis, causing arthrogryposis. A variety of mitochondrial respiratory chain complex deficiencies have been associated with contractures of varying severity. Therefore, mitochondrial disorders should be considered in the differential diagnosis of neonatal arthrogryposis, especially if other characteristic findings such as lactic acidemia or basal ganglia abnormalities are present. (C) 2012 Wiley Periodicals, Inc.  
Number of Volumes: 9  
ISI Document Delivery No.: 023WU <Go to ISI>://CCC:000310068700041

686. Wilson, B. W.; Rusli, F. J.; Tam, M. K. Y.; DePeters, E., and Henderson, J. D. Carbamate Protection of AChE Against Inhibition by Agricultural Chemicals. 2012; 26, 506-509.   
Rec #: 16510  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The carbamate pyridostigmine bromide has been used as a pretreatment to protect individuals from the nerve agent soman. Previous research showed that pyridostigmine significantly protected human muscle acetylcholinesterase in vitro from soman and bovine red blood cell acetylcholinesterase from some organophosphorous pesticides. Research presented here demonstrates that pretreatment with other carbamates also protects acetylcholinesterase from inhibition by the pesticides chlorpyrifos-oxon and diazinon-oxon, but not from malaoxon. (C) 2012 Wiley Periodicals, Inc. J Biochem Mol Toxicol 26: 506-509, 2012; View this article online at wileyonlinelibrary.com. DOI10.1002/jbt.21456  
Number of Volumes: 12  
ISI Document Delivery No.: 073XS <Go to ISI>://CCC:000313777000004

687. Winter, Carl K; Katz, Josh M, and Katz, Josh M. Dietary Exposure to Pesticide Residues From Commodities Alleged to Contain the Highest Contamination Levels. 2011 Jan; 2011.  
Rec #: 6680  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: Probabilistic techniques were used to characterize dietary exposure of consumers to pesticides found in twelve commodities implicated as having the greatest potential for pesticide residue contamination by a United States-based environmental advocacy group. Estimates of exposures were derived for the ten most frequently detected pesticide residues on each of the twelve commodities based upon residue findings from the United States Department of Agriculture's Pesticide Data Program. All pesticide exposure estimates were well below established chronic reference doses (RfDs). Only one of the 120 exposure estimates exceeded 1% of the RfD (methamidophos on bell peppers at 2% of the RfD), and only seven exposure estimates (5.8 percent) exceeded 0.1% of the RfD. Three quarters of the pesticide/commodity combinations demonstrated exposure estimates below 0.01% of the RfD (corresponding to exposures one million times below chronic No Observable Adverse Effect Levels from animal toxicology studies), and 40.8% had exposure estimates below 0.001% of the RfD. It is concluded that (1) exposures to the most commonly detected pesticides on the twelve commodities pose negligible risks to consumers, (2) substitution of organic forms of the twelve commodities for conventional forms does not result in any appreciable reduction of consumer risks, and (3) the methodology used by the environmental advocacy group to rank commodities with respect to pesticide risks lacks scientific credibility.  
Keywords: Environmental Studies--Toxicology And Environmental Safety  
Keywords: Toxicology Abstracts English. Date revised - 2011-08-01. Last updated - 2011-11-07. DOI - OB-2a1dafc3-cbbb-4d9a-b32bmfgefd101; 15381366; 1687-8191; 1687-8205

688. Wise, Caroline; Van Steenwyk, Robert; Novotny, Lauren; Miller, Anthony, and Wise, Caroline. Infestation of Cherries by Spotted Wing Drosophila in Relation to Canopy Height and Evaluation of Cover/Trunk Applications of Malathion for Control of Swd. 2012 Jan 11.  
Rec #: 2870  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Infestation  
Keywords: Wings  
Keywords: Canopies  
Keywords: Drosophila  
Keywords: Malathion  
Keywords: Prunus English. Date revised - 2013-02-26. Last updated - 2013-02-28. DOI - CPI-6119392; 6119392

689. Wismer, T. and Means, C. Toxicology of Newer Insecticides in Small Animals. 2012; 42, (2): 335-347.   
Rec #: 1660  
Keywords: REFS CHECKED,REVIEW  
Call Number: NO REFS CHECKED (ACP,ADC,BOR,BRA3,CBL,CMPH,CPY,DDVP,DMT,DS,DZ,FPN,IMC,MLN,MOM,MTPN,NNCT,PFOS,PPX,PRT,PSM,SFA,TBO,TCF,TMP,TVP), NO REVIEW (ACP,ADC,BOR,BRA3,CBL,CMPH,CPY,DDVP,DMT,DS,DZ,FPN,IMC,MLN,MOM,MTPN,NNCT,PFOS,PPX,PRT,PSM,SFA,TBO,TCF,TMP,TVP)  
Notes: Chemical of Concern: ACP,ADC,BOR,BRA3,CBL,CMPH,CPY,DDVP,DMT,DS,DZ,EPRN,FNTH,FPN,HMN,IDC,IMC,LUF,MLN,MOM,MTPN,PFOS,PPX,PRN,PRT,PSM,PYX,SFA,SS,TBO,TCF,TMP,TVP

690. Wolfe, N. L.; Zepp, R. G.; Gordon, J. A.; Baughman, G. L., and Cline, D. M. Kinetics of Chemical Degradation of Malathion in Water. 1977; 11, (1): 88-93.   
Rec #: 1180  
Keywords: CHEM METHODS  
Call Number: NO CHEM METHODS (MLN)  
Notes: Chemical of Concern: MLN

691. Wong-Ek, Krongkamol; Horprathum, Mati; Eiamchai, Pitak; Limnonthakul, Puenisara; Patthanasettakul, Viyapol; Chindaudom, Pongpan; Nuntawong, Noppadon, and Wong-Ek, Krongkamol. Portable Surface-Enhanced Raman Spectroscopy for Insecticide Detection Using Silver Nanorod Film Fabricated by Magnetron Sputtering. 2011; 7911.  
Rec #: 6710  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In order to increase agricultural productivity, several countries heavily rely on deadly insecticides, known to be toxic to most living organisms and thus significantly affect the food chain. The most obvious impact is to human beings who come into contact, or even consume, pesticide-exposed crops. This work hence focused on an alternative method for insecticide detection at trace concentration under field tests. We proposed a compact Raman spectroscopy system, which consisted of a portable Raman spectroscope, and a surface-enhanced Raman scattering (SERS) substrate, developed for the purpose of such application, on a chip. For the selected portable Raman spectroscope, a laser diode of 785 nm for excitation and a thermoelectric-cooled CCD spectrometer for detection were used. The affordable SERS substrates, with a structure of distributed silver nanorods, were however fabricated by a low-energy magnetron sputtering system. Based on an oblique-angle deposition technique, several deposition parameters, which include a deposition angle, an operating pressure and a substrate rotation, were investigated for their immediate effects on the formation of the nanorods. Trace concentration of organophosphorous chemical agents, including methyl parathion, chlorpyrifos, and malathion, adsorbed on the fabricated SERS substrates were analyzed. The obtained results indicated a sensitive detection for the trace organic analyses of the toxic chemical agents from the purposed portable SERS system.  
Keywords: ENA 06:Food & Drugs  
Keywords: Chlorpyrifos  
Keywords: Insecticides  
Keywords: Food chains  
Keywords: Agricultural production  
Keywords: Lasers  
Keywords: Environment Abstracts  
Keywords: Spectroscopy  
Keywords: Silver  
Keywords: Crops  
Keywords: Malathion English. Date revised - 2012-01-01. Last updated - 2012-03-29. DOI - 994643b9-18ea-42aa-a9becsaobj201; 14591022; 0277-786X

692. Wu, R; Niu, M-F; Guo, Y; Wang, J; Zhao, M-Q; Shi, Y; Liu, Z-Y, and Wu, R. Survey and Analysis of Pesticide Contamination in Greenhouse. 2009 Jun 20; 28, (1): 130-134.   
Rec #: 7560  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Based on the retention time and characteristics of ion abundance ratio, a pretreatment to organic phosphorus pesticides (tradimefon, dimethoate, dichlorvos, quinalphos, phoxim, buprofezin, thimet, malathion and parathion), pyrethroid pesticides (chlorothalonil, cypermethrin, fenvalerate, Decamethrin K-othrin Decis Deltamethrin) combining with Foilosil column chromatograph and gas chromatography (GC) was adopted to detect pesticide residues of cucumbers and leaves in greenhouses of Liaoning. The results showed that the detection of types of organic phosphorus pesticides were not fixed, that was, pyrethroid pesticides that were detected was much stable. Organic phosphorus and pyrethroid pesticides that were detected in the leaves were slightly higher than that in the fruit, and the circumstances of detection at different times and in different greenhouses were slightly different. In view of the current status of pesticides application, we should be more attention to the use and regulation of organic phosphorus and the pyrethroid pesticides. Considering the highly toxic of organic phosphorus pesticide, we should advocate reduce or stop using organic phosphorus pesticides; To the pyrethroid pesticides, we should strengthen its role in the propaganda and the use of its control, at the same time, in order to avoid unnecessary pollution, it is necessary to control the dosage of pyrethroid pesticides.  
Keywords: Contamination  
Keywords: Pesticide residues  
Keywords: Environmental regulations  
Keywords: fruits  
Keywords: dichlorvos  
Keywords: quinalphos  
Keywords: P 6000:TOXICOLOGY AND HEALTH  
Keywords: Deltamethrin  
Keywords: organic phosphorus  
Keywords: Malathion  
Keywords: cypermethrin  
Keywords: Gas chromatography  
Keywords: fenvalerate  
Keywords: greenhouses  
Keywords: Pollution Abstracts  
Keywords: Pyrethroids  
Keywords: dimethoate  
Keywords: propaganda  
Keywords: Parathion  
Keywords: abundance English. Date revised - 2009-03-01. Last updated - 2011-12-14. DOI - MD-0009386803; 9071626; 1672-2043. SubjectsTermNotLitGenreText - Contamination; Pesticide residues; Environmental regulations; fruits; dichlorvos; quinalphos; Malathion; organic phosphorus; Deltamethrin; cypermethrin; Gas chromatography; fenvalerate; greenhouses; Pyrethroids; dimethoate; propaganda; Parathion; abundance

693. Xu, Fei; Yu, Wei-Jing; Sun, Da-Wen; Xu, Xue-Qin, and Hua, Tse-Chao. Performance comparison of free and immobilised chicken liver esterase inhibited by four different pesticides. 2008; 88, 2538-2542.   
Rec #: 11510  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: BACKGROUND: In enzyme inhibition-based biosensors for the detection of organophosphate and carbamate pesticides, the biological element is the immobilised esterase which is inhibited selectively by the pesticides. The free chicken liver esterase, which possesses comparable inhibition response to the pesticides as AChE, has been reported. However, the responses to the pesticides are different between the free and immobilised enzyme due to the diffusion limitation. Therefore, in this study four typical pesticides were selected to compare the ability of free and (ion exchange) immobilised chicken enzyme for pesticide detection and reasons for the difference were investigated.RESULTS: For dichlorvos and malathion at a concentration of 0.1 mg LÃ¢ÂÂ»Ã‚Â¹, the inhibition of the immobilised enzyme was 26.98% and 48.72%, respectively, higher than that for the free enzyme, while the percentage inhibition of free and immobilised enzyme differed very little for trichlorfon at 0.1 mg LÃ¢ÂÂ»Ã‚Â¹. In the meantime, carbaryl at a concentration of 2.5 mg LÃ¢ÂÂ»Ã‚Â¹ showed a 17.72% inhibition for immobilised enzyme which was 13.64% higher than that for the free enzyme. The Michaelis constant of immobilised enzyme was lower than that of the free one and suitable pH values for the free and immobilised enzyme were 7.5 and 8.0, respectively.CONCLUSIONS: The sensitivity of chicken liver esterase to the pesticide inhibition could be improved by immobilisation. Smaller Km and a lower pH for the micro-environment of immobilised enzyme should result in higher percentage inhibition compared with that of the free enzyme.  
Keywords: Internet resource  
Number of Volumes: 14  
John Wiley & Sons, Ltd. http://dx.doi.org/10.1002/jsfa.3377

694. Xu, R; Chen, Y, and Xu, R. Assessing Acute Ecological Risks of Organophosphorus Pesticides to Freshwater Organisms by Species Sensitivity Distributions. 2012 Nov; 24, (6): 811-821.   
Rec #: 5590  
Keywords: REVIEW  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Species sensitivity distributions (SSD) method was used to assess the acute ecological risk of four commonly-used organophosphorus pesticides (diazinon, parathion, fenitrothion and malathion) to freshwater organisms. The acute toxicity data (LC sub(50)) were collected from ECOTOX database and SSD curves were fitted based on Burrlll function. The acute ecological risks of the organophosphorus pesticides and the sensitivity of vertebrate and invertebrate (including fish, crustaceans, insects and spiders) to these pesticides were compared by the hazardous concentrations for 5% of the species (HC5) and the potential affected fraction (PAF). The joint ecological risks of the organophosphorus pesticides in the Yellow River, Jiulongjiang River, and Wuxiaochuan River were also analyzed. The following results were obtained: 1) by comparing the HC5 and PAF values, the toxicities and ecological risks of the organophosphorus pesticides to invertebrates were significantly higher than those to vertebrates, and the largest toxicities and ecological risks were found to crustaceans, while the minimum to fish. 2) It was found by comparing the SSD curves that, in case of the log-transformed concentration less than 3.5 mu g/L, the ecological risks of four organophosphorus pesticides to invertebrates were significantly higher than those to vertebrates; on the contrary, in case of the log-transformed concentration larger than 4.5 mu g/L, those to vertebrates were higher. 3) In the vast majority of exposure concentrations, invertebrates were more sensitive to the organophosphate pesticides than vertebrates. Under lower exposure concentrations, crustaceans were more sensitive to the organophosphate pesticides; while, under higher exposure concentrations, insects and spiders were more sensitive. 4) The PAFs and multisubstance PAFs (msPAFs) of parathion and malathion to the freshwater organisms in the Yangtze River, Jiulongjiang River, and Wuxiaochuan Kiver were less than 0.5%, which imply that their ecological risks were very low.  
Keywords: Q5 01503:Characteristics, behavior and fate  
Keywords: China, People's Rep., Changjiang R.  
Keywords: Organophosphates  
Keywords: M3 1010:Issues in Sustainable Development  
Keywords: Invertebrates  
Keywords: Freshwater  
Keywords: Toxicity tests  
Keywords: China, People's Rep., Huang He R.  
Keywords: Risks  
Keywords: SW 5010:Network design  
Keywords: Organophosphorus Pesticides  
Keywords: Agricultural Chemicals  
Keywords: Exposure  
Keywords: R2 23050:Environment  
Keywords: Aquatic insects  
Keywords: Pollution indicators  
Keywords: Rivers  
Keywords: Sensitivity  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: AQ 00008:Effects of Pollution  
Keywords: Pollution Abstracts; Risk Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality; Aqualine Abstracts; Water Resources Abstracts; Sustainability Science Abstracts  
Keywords: Toxicity  
Keywords: Insects  
Keywords: Risk  
Keywords: Bioaccumulation  
Keywords: Water Pollution Effects  
Keywords: Pesticides  
Keywords: Freshwater organisms  
Keywords: Fish  
Keywords: Mortality causes  
Keywords: Crustaceans Chinese. Date revised - 2012-12-01. Last updated - 2013-05-06. DOI - MD-0020205836; 17477255; 1003-5427. SubjectsTermNotLitGenreText - Bioaccumulation; Pesticides; Freshwater organisms; Toxicity; Aquatic insects; Pollution indicators; Toxicity tests; Risks; Mortality causes; Sensitivity; Organophosphates; Fish; Invertebrates; Insects; Crustaceans; Rivers; Risk; Agricultural Chemicals; Organophosphorus Pesticides; Exposure; Water Pollution Effects; China, People's Rep., Changjiang R.; China, People's Rep., Huang He R.; Freshwater

695. Yadav, A. K. and Akla, B. P. Effects of Organophosphates on the Biochemical Constituents of Channa punctatus. Department of Zoology, D.C. College, Hajipur, Bihar, India//: 2002; 5, (3-4): 139-142.   
Rec #: 930  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

696. Yang, M; Xu, X; Gui, W; Zhu, G; Qin, L, and Yang, M. Removal Effect of Six Organophosphorus Pesticide Residues in Brassica Chinensis and Cucumbers by Ozone Water. 2013 Feb; 15, (1): 85-90.   
Rec #: 2400  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Removal effect of six organophosphorus pesticide residues in cucumbers and Brassica chinensis L. by ozone water was investigated. The results showed that the removal effect by ozone water was better than that by tap-water. With ozone for 30 min, total removal rates of acephate, diazinon, malathion, chlorpyrifos, quintiofos and triazophos on B. chinensis and cucumbers were 26.4%-65.2% and 22.7%-75.4%, respectively. And net removal rates of them were 6.8%-17.3% and 4.4%-45.4%, respectively. The study on the degradation rate of six pesticides in ozone water was indicated that the removal efficiency of pesticide residues by ozone was relevant to the species of fruits or vegetables, the treating time of ozone and the types of residue.  
Keywords: Chlorpyrifos  
Keywords: Brassica chinensis  
Keywords: Fruits  
Keywords: Degradation  
Keywords: P 0000:AIR POLLUTION  
Keywords: Pesticide residues  
Keywords: Pesticides  
Keywords: Drinking water  
Keywords: Pollution Abstracts  
Keywords: Diazinon  
Keywords: Malathion  
Keywords: Ozone Chinese. Date revised - 2013-04-01. Last updated - 2013-04-19. DOI - MD-0020580296; 17790095; 1008-7303. SubjectsTermNotLitGenreText - Chlorpyrifos; Fruits; Degradation; Pesticide residues; Pesticides; Drinking water; Diazinon; Malathion; Ozone; Brassica chinensis

697. Yang, X.; Zhang, H.; Liu, Y.; Wang, J.; Zhang, Y. C.; Dong, A. J.; Zhao, H. T.; Sun, C. H., and Cui, J. Multiresidue method for determination of 88 pesticides in berry fruits using solid-phase extraction and gas chromatographyÇômass spectrometry: Determination of 88 pesticides in berries using SPE and GCÇôMS. 2011 Jul 15-; 127, (2): 855-865.   
Rec #: 1550  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: A method using solid phase extraction (SPE) cleanup followed by gas chromatographyÇômass spectrometry (GCÇôMS) has been established for quantitative determination of 88 pesticide residues in berry fruits including raspberry, strawberry, blueberry and grape. Based on an appraisal of the characteristics of GCÇôMS, validation experiments were conducted for 88 pesticides. In the method, solid-phase extraction was carried out using Envi-Carb cartridge coupled with NH2-LC cartridge with acetonitrileÇôtoluene (3:1, v/v) as the eluted solvent. In the linear range of each pesticide, the correlation coefficient was R2 \_+ 0.99. At the low, medium and high three fortification levels of 0.05Çô0.5 mg kgêÆ1, recoveries fell within 63Çô137%. The relative standard deviation was between 1% and 19% for all 88 pesticides. Low limits of detection (0.006Çô0.05 mg kgêÆ1) and quantification (0.02Çô0.15 mg kgêÆ1) were readily achieved with this method for all tested pesticides. Pesticides/ Multi-residue analysis/ Berry fruits/ SPE/ GCÇôMS/ Validation http://www.sciencedirect.com/science/article/pii/S0308814611000823

698. Yang, Y.; Gu, D. Y.; Aisa, H. A., and Ito, Y. Studies on the effect of column angle in centrifugal helix counter-current chromatography. 2010; 1217, 2117-2122.   
Rec #: 16560  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The performance of the coiled column of centrifugal counter-current chromatography was investigated by changing the angle between column axis and centrifugal force in the separation of dipeptides or DNP-amino acids each with suitable two-phase solvent systems. In general, retention of the stationary phase (Sf) decreased, and peak resolution (Rs) increased as the column angle was increased. The first series of experiments was performed using a polar two-phase solvent system composed of 1-butanol acetic acid water (4:1:5, v/v/v) to separate two dipeptide samples, Trp-Tyr and Val-Tyr, at a flow rate of 1 ml/min at 1000 rpm. When the column angle was changed from 0 degrees to 90 degrees. Rs increased from 1.05 (Sf = 60.1%) to 1.17 (Sf = 38.7%) with the lower phase mobile and from 1.02 (Sf = 67.8%) to 1.14 (Sf = 47.4%) with the upper phase mobile, respectively. The second series of experiments was similarly performed with a more hydrophobic two-phase solvent system composed of hexane ethyl acetate methanol-0.1 M hydrochloric acid (1:1:1:1, v/v/v/v) to separate three DNP-amino acids. DNP-glu, DNP-beta-ala and DNP-ala, at a flow rate of 1 ml/min at 1000 rpm. When the column angle was changed from 0 degrees to 90 degrees. Rs increased from 1.38 (1st peak/2nd peak) and 1.20 (2nd peak/3rd peak) (Sf = 61.1%) to 1.66 and 1.45 (Sf= 34.4%) with the lower phase mobile and from 1.14 and 0.63 (Sf = 72.2%) to 1.53 and 0.87 (Sf = 51.1%) with the upper phase mobile, respectively. The overall results of our studies indicate that increasing the column angle against the radially acting centrifugal force enhances the mixing of two phases in the column to improve the peak while decreasing the stationary phase retention by interrupting the laminar flow of the mobile phase. Published by Elsevier B.V.  
Number of Volumes: 14  
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699. Yang, Zhong-Hua; Liu, Yu; Lu, Yue-Le; Wu, Tong; Zhou, Zhi-Qiang, and Liu, Dong-Hui. Dispersive suspended microextraction. 2011 Nov 14-; 706, (2): 268-274.   
Rec #: 2020  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: A novel sample pre-treatment technique termed dispersive suspended microextraction (DSME) coupled with gas chromatography-flame photometric detection (GC-FPD) has been developed for the determination of eight organophosphorus pesticides (ethoprophos, malathion, chlorpyrifos, isocarbophos, methidathion, fenamiphos, profenofos, triazophos) in aqueous samples. In this method, both extraction and two phasesÇÖ separation process were performed by the assistance of magnetic stirring. After separating the two phases, 1 ++L of the suspended phase was injected into GC for further instrument analysis. Varieties of experiment factors which could affect the experiment results were optimized and the following were selected: 12.0 ++L p-xylene was selected as extraction solvent, extraction speed was 1200 rpm, extraction time was 30 s, the restoration speed was 800 rpm, the restoration time was 8 min, and no salt was added. Under the optimum conditions, limits of detections (LODs) varied between 0.01 and 0.05 ++g LêÆ1. The relative standard deviation (RSDs, n = 6) ranged from 4.6% to 12.1%. The linearity was obtained by five points in the concentration range of 0.1Çô100.0 ++g LêÆ1. Correlation coefficients (r) varied from 0.9964 to 0.9995. The enrichment factors (EFs) were between 206 and 243. In the final experiment, the developed method has been successfully applied to the determination of organophosphorus pesticides in wine and tap water samples and the obtained recoveries were between 83.8% and 101.3%. Compared with other pre-treatment methods, DSME has its own features and could achieve satisfied results for the analysis of trace components in complicated matrices. Organophosphorus pesticides/ Dispersive suspended microextraction/ Gas chromatography/ Wine/ Tap water http://www.sciencedirect.com/science/article/pii/S0003267011012098

700. Yarpuz-Bozdogan, N. and Bozdogan, A. M. Assessment of dermal bystander exposure in pesticide applications using different types of nozzles. 2009; 7, 678-682.   
Rec #: 16580  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: In pesticide applications, pesticide deposition on off-target can be reduced by using appropriate nozzles. In this study, the effects of different types of nozzles were investigated pesticide deposition on bystander to malathion. The application rate of trials was 200 1 ha(-1). In the trials, the hollow cone nozzles (HC), the flat fan nozzles (F), and the low-drift flat fan nozzles (LD) were used. Malathion was applied as 0.570 kg a.i. per ha in the trials. The dermal bystander exposure was measured by using the whole body dosimetry technique. In the trials, the total body area of bystander overalls was approximately 2 m(2). All chromatographic analysis was performed on gas chromatography with equipped a nitrogen-phosphorus detector (GC-NPD). Pesticide deposition found in each one of the body parts in F-nozzles was higher than LD and HC nozzles. The lowest pesticide deposition on bystander was found in LD nozzles. Totally, the lowest dermal deposition was obtained as 5.972 mu g kg(-1) in LD nozzles, and was found to be 1.27-1.88 orders of magnitude lower than in HC nozzles and F nozzles. It was shown that, in this study, the total bystander exposure can be reduced 21.3-46.8% by using low drift nozzles in pesticide applications.  
Number of Volumes: 2  
ISI Document Delivery No.: 447LM <Go to ISI>://CCC:000266192600125

701. Yarzhombek, A. A.; Mikulin, A. E., and Zhdanova, A. N. Toxicity of Substances in Relation to Form of Exposure. 1991; 31, (3): 496-502(RUS).   
Rec #: 1300  
Keywords: NON-ENGLISH  
Call Number: NON-ENGLISH (1Major ions,CuS,ETHN,Halides,IODN,MLN,NaBr,NaCl,NaOH,TCF)  
Notes: Chemical of Concern: CdAC,CuS,ETHN,Halides,IODN,K2Cr2O7,KOH,MLN,MoNa,NaBr,NaCl,NaOH,PL,TCF

702. Yeh, Yu-Sing; Yang, Kai-Chun; Wang, Jing-Yao; Li, Yan-Chay; Huang, Ke-Nung; Young, Ming-Shing, and Yeh, Yu-Sing. The Study of a Microscopy Image Processing Method Apply on the Paramecium Activity Influenced by Malathion. 2009 Dec 9.  
Rec #: 4500  
Keywords: ABSTRACT  
Notes: Chemical of Concern: MLN  
Abstract: Keywords: Microscopy  
Keywords: U 7000:Multidisciplinary  
Keywords: Paramecium  
Keywords: Image processing  
Keywords: Malathion English. Date revised - 2010-04-06. Last updated - 2010-05-03. DOI - CPI-5618342; 5618342

703. Yeragi, S. G.; Yeragi, S. S., and Koli, V. A. Acute and Chronic Effects of Pesticide Malathion on Lactate Dehydrogenase (LDH) in Certain Tissues of the Marine Crab, Uca marionis (Des). K. J. Somaiya College of Science, Vidyavihar, Mumbai 400 077, India//: 2002; 5, (3/4): 129-132.   
Rec #: 940  
Keywords: NO SOURCE  
Call Number: NO SOURCE (MLN)  
Notes: Chemical of Concern: MLN

704. Yiin, James H; Ruder, Avima M; Stewart, Patricia a; Waters, Martha a; Carreon, Tania; Butler, Mary Ann; Calvert, Geoffrey M; Davis-King, Karen E; Schulte, Paul a; Mandel, Jack S; Morton, Roscoe F; Reding, Douglas J; Rosenman, Kenneth D, and Yiin, James H. The Upper Midwest Health Study: a Case-Control Study of Pesticide Applicators and Risk of Glioma. 2012; 11, (1): 39.   
Rec #: 5960  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Background: An excess incidence of brain cancer in farmers has been noted in several studies. The National Institute for Occupational Safety and Health developed the Upper Midwest Health Study (UMHS) as a case-control study of intracranial gliomas and pesticide uses among rural residents. Previous studies of UMHS participants, using "ever-never" exposure to farm pesticides and analyzing men and women separately, found no positive association of farm pesticide exposure and glioma risks. The primary objective was to determine if quantitatively estimated exposure of pesticide applicators was associated with an increased risk of glioma in male and female participants. Methods: The study included 798 histologically confirmed primary intracranial glioma cases (45 % with proxy respondents) and 1,175 population-based controls, all adult (age 18-80) non-metropolitan residents of Iowa, Michigan, Minnesota, and Wisconsin. The analyses used quantitatively estimated exposure from questionnaire responses evaluated by an experienced industrial hygienist with 25 years of work on farm pesticide analyses. Odds ratios (ORs) and 95 % confidence intervals (CIs) using unconditional logistic regression modeling were calculated adjusting for frequency-matching variables (10-year age group and sex), and for age and education (a surrogate for socioeconomic status). Analyses were separately conducted with or without proxy respondents. Results: No significant positive associations with glioma were observed with cumulative years or estimated lifetime cumulative exposure of farm pesticide use. There was, a significant inverse association for phenoxy pesticide used on the farm (OR 0.96 per 10 g-years of cumulative exposure, CI 0.93-0.99). No significant findings were observed when proxy respondents were excluded. Non-farm occupational applicators of any pesticide had decreased glioma risk: OR 0.72, CI 0.52-0.99. Similarly, house and garden pesticide applicators had a decreased risk of glioma: OR 0.79, CI 0.66-0.93, with statistically significant inverse associations for use of 2,4-D, arsenates, organophosphates, and phenoxys. Conclusions: These results are consistent with our previous findings for UMHS of reported farm pesticide exposure and support a lack of positive association between pesticides and glioma.  
Keywords: Age  
Keywords: Farms  
Keywords: Housing  
Keywords: Organophosphates  
Keywords: Risk Abstracts; Health & Safety Science Abstracts  
Keywords: Brain  
Keywords: H 1000:Occupational Safety and Health  
Keywords: USA, Wisconsin  
Keywords: Arsenates  
Keywords: USA, Minnesota  
Keywords: Cancer  
Keywords: Environmental Studies  
Keywords: USA, Iowa  
Keywords: Pesticides  
Keywords: R2 23060:Medical and environmental health  
Keywords: Glioma English. Date revised - 2013-03-01. Last updated - 2013-03-21. DOI - OB-51c03174-a0fb-43d3-b006mfgefd107; 17720860; 1476-069X. SubjectsTermNotLitGenreText - Age; Farms; Housing; Organophosphates; Pesticides; Brain; Glioma; Arsenates; Cancer; USA, Iowa; USA, Wisconsin; USA, Minnesota

705. Yousif, I. O. Micronucleus analysis and mitotic index in a Jordanian population exposed to pesticides of organophosphate: malathion and chlorpyrifos. 2011; 64, 173-178.   
Rec #: 16630  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: A longitudinal study of possible genetic damage in Jordanian workers occupationally exposed to a mixture of pesticides containing malathion and chlorpyrifos was studied. Micronucleus assay and mitotic index were selected to achieve this purpose. A second series of blood samples was taken 8 months after the workers were removed from agricultural field to detect DNA repair in lymphocytes of the same subjects. Regardless of the sampling time the exposed workers showed an increased number of micronucleus (MN) frequency. After 8 months of non-exposure the workers showed a significantly decreased number of MN frequency compared to the results of the first sampling, but it was still significantly higher than the controls indicating a possible risk of cytogenetic damage for the exposed group. Besides that, malathion and chlorpyrifos lowered the mitotic index in peripheral lymphocyte cells of the exposed subjects.  
Number of Volumes: 2  
ISI Document Delivery No.: 844KW <Go to ISI>://CCC:000296747100006

706. Yu, Hongbin ; Wang, Xinhong; Sun, Hongwei, and Huo, Mingxin. Photocatalytic degradation of malathion in aqueous solution using an AuÇôPdÇôTiO2 nanotube film. 2010 Dec 15-; 184, (1Çô3): 753-758.   
Rec #: 60  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: The extensive use of pesticides has promoted the agricultural production, but a series of subsequent environmental issues have drawn the concern of governments and people worldwide, such as groundwater and surface water pollutions. In order to remove these pollutants, photocatalysis has emerged as a powerful method. In this paper, the photocatalytic degradation of an organophosphorus pesticide malathion was investigated using an AuÇôPd co-modified TiO2 nanotube film (AuÇôPdÇôTiO2). This film was fabricated by simultaneously photo-depositing Au and Pd precursors on a self-organized TiO2 nanotube film. Its morphology and structures were well characterized by a scanning electron microscope (SEM), X-ray diffraction (XRD), and X-ray photoelectron spectroscopy (XPS). The photocatalytic experiments revealed that the malathion elimination rate increased by 172% when the photocatalyst of the naked TiO2 nanotube film was replaced by AuÇôPdÇôTiO2. Additionally, the amount of H2O2 yielded on the AuÇôPdÇôTiO2 film in 60 min was 2.89 times that on the naked TiO2. The enhanced photocatalytic performance could be attributed to both the effective separation of photo-generated charge carriers and the higher synthesis rate of H2O2. The possible photocatalytic mechanism was discussed. Photocatalytic degradation/ Organophosphorus pesticide/ Malathion/ AuÇôPdÇôTiO2 http://www.sciencedirect.com/science/article/pii/S0304389410011192

707. Yu, Hongbin ; Wang, Xinhong; Sun, Hongwei; Huo, Mingxin, and Yu, Hongbin. Photocatalytic Degradation of Malathion in Aqueous Solution Using an Au-Pd-Tio2 Nanotube Film. 2010 Dec 15; 184, (1-3): 753-758.   
Rec #: 3830  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: The extensive use of pesticides has promoted the agricultural production, but a series of subsequent environmental issues have drawn the concern of governments and people worldwide, such as groundwater and surface water pollutions. In order to remove these pollutants, photocatalysis has emerged as a powerful method. In this paper, the photocatalytic degradation of an organophosphorus pesticide malathion was investigated using an Au-Pd co-modified TiO2 nanotube film (Au-Pd-TiO2). This film was fabricated by simultaneously photo-depositing Au and Pd precursors on a self-organized TiO2 nanotube film. Its morphology and structures were well characterized by a scanning electron microscope (SEM), X-ray diffraction (XRD), and X-ray photoelectron spectroscopy (XPS). The photocatalytic experiments revealed that the malathion elimination rate increased by 172% when the photocatalyst of the naked TiO2 nanotube film was replaced by Au-Pd-TiO2. Additionally, the amount of H2O2 yielded on the Au-Pd-TiO2 film in 60min was 2.89 times that on the naked TiO2. The enhanced photocatalytic performance could be attributed to both the effective separation of photo-generated charge carriers and the higher synthesis rate of H2O2. The possible photocatalytic mechanism was discussed.  
Keywords: Scanning electron microscopy  
Keywords: Pesticides (organophosphorus)  
Keywords: Surface water  
Keywords: Agricultural production  
Keywords: Spectroscopy  
Keywords: X-ray diffraction  
Keywords: Malathion  
Keywords: ENA 06:Food & Drugs  
Keywords: Pollutants  
Keywords: Photodegradation  
Keywords: Toxicology Abstracts; Environment Abstracts  
Keywords: Hydrogen peroxide  
Keywords: Ionizing radiation  
Keywords: Pesticides  
Keywords: Ground water  
Keywords: Groundwater  
Keywords: X 24330:Agrochemicals  
Keywords: Photoelectron spectroscopy  
Keywords: nanotechnology English. Date revised - 2011-01-01. Last updated - 2012-03-29. DOI - 94e42622-9244-41f8-8771csamfg201; 13888660; 0304-3894. SubjectsTermNotLitGenreText - Pesticides (organophosphorus); Scanning electron microscopy; Pollutants; Surface water; Hydrogen peroxide; Ionizing radiation; Ground water; X-ray diffraction; Photoelectron spectroscopy; Malathion; Photodegradation; Agricultural production; Pesticides; Spectroscopy; Groundwater; nanotechnology

708. Yu, W. W. and White, I. M. Inkjet-printed paper-based SERS dipsticks and swabs for trace chemical detection. 2013; 138, 1020-1025.   
Rec #: 16660  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: We demonstrate a paper-based surface swab and lateral-flow dipstick that includes an inkjet-printed surface-enhanced Raman spectroscopy (SERS) substrate for analyte detection. Due to capillary-action wicking of cellulose, the paper dipstick enables extremely simple and pump-free loading of liquid samples into the detection device, and in addition provides inherent analyte concentration within the detection volume. Furthermore, the flexible nature of the paper-based SERS device also enables it to act as a swab to collect analyte molecules directly from a large-area surface; the collected analyte molecules can then be focused into a small-volume SERS-active region by lateral-flow concentration. These capabilities are unseen in today's SERS substrates and microfluidic SERS devices. Using these novel lateral-flow paper SERS devices, we achieved detection limits as low as 95 fg of Rhodamine 6G (R6G), 413 pg of the organophosphate malathion, 9 ng of heroin, and 15 ng of cocaine. Moreover, the measurements show that the technique is quantitative and is repeatable across multiple swabs and dipsticks. The results reported here may lead to ultra-low-cost portable applications in trace chemical detection.  
Number of Volumes: 4  
ISI Document Delivery No.: 074ID <Go to ISI>://CCC:000313805200009

709. Yu, W W; White, I M, and Yu, W W. A Simple Filter-Based Approach to Surface Enhanced Raman Spectroscopy for Trace Chemical Detection. 2012 Mar 7; 137, (5): 1168-1173.   
Rec #: 2740  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: We demonstrate an extremely simple and practical surface enhanced Raman spectroscopy (SERS) technique for trace chemical detection. Filter membranes first trap silver nanoparticles to form a SERS-active substrate and then concentrate analytes from a mL-scale sample into a mu L-scale detection volume. We demonstrate a significant improvement in detection limit as compared to colloidal SERS for the pesticide malathion and the food contaminant melamine. The measured SERS intensity exhibits low variation relative to traditional SERS techniques, and the data can be closely fit with a Langmuir isotherm. Thus, due to the simple procedure, the low-cost of the substrates, the quantitative results, and the performance improvement due to analyte concentration, our technique enables SERS to be practical for a broad range of analytical applications, including field-based detection of toxins in large-volume samples.  
Keywords: British Isles  
Keywords: Filters  
Keywords: Membranes  
Keywords: P 9999:GENERAL POLLUTION  
Keywords: Pesticides  
Keywords: Pollution Abstracts; Water Resources Abstracts  
Keywords: Spectroscopy  
Keywords: Silver  
Keywords: Toxins  
Keywords: Malathion English. Date revised - 2012-04-01. Last updated - 2012-12-14. DOI - MD-0018433158; 16506799; 0003-2654. SubjectsTermNotLitGenreText - Filters; Membranes; Pesticides; Spectroscopy; Silver; Malathion; Toxins; British Isles

710. Yu, Y.; Yang, A. M.; Zhang, J. H.; Hu, S. K., and Yan, H. [Synergistic Effect of Dichlorvos, Dimethoate and Malathion Mixture on Reproduction Toxicity in Male Mice].   
Rec #: 8450  
Keywords: NON-ENGLISH  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: OBJECTIVE: To evaluate the reproduction toxicity of the mixture composed of dichlorvos, dimethoate and malathion synergistic effect on male mice, and further explore its possible mechanisms.  
ABSTRACT: METHODS: The 105 male mice were divided into 7 groups, including control (0 mg/kg), mix low (10.8 mg/kg), mix medium (21.5 mg/kg), mix high dose (43.0 mg/kg), dichlorvos (5.1 mg/kg), dimethoate (12.6 mg/kg) and malathion (25.3 mg/kg) group. The oral gavage for successive 35 days, and the mice were sacrificed on the 36(th) day. The body weight, and the quantity, activity and morphology of sperms were examined. The levels of sexual hormone were measured, including testosterone (T), follicle stimulating hormone (FSH), luteinizing hormone (LH) and estradiol (E(2)). Pathological changes of testicle and epididymis were observed by morphology, pathology and electron microscope.  
ABSTRACT: RESULTS: After 14 days exposure, the body weights of the mice were lower in the mix-high dose group ((22.40 &plusmn; 3.07) g) than those in control group ((26.73 &plusmn; 2.82) g) (P < 0.05). After 28 days exposure, the body weights of the mice were also lower in the mix-medium dose group ((30.00 &plusmn; 4.93) g) than those in control group ((33.13 &plusmn; 3.29) g) (P < 0.05). The sperm counts and sperm motility decreased significantly as the toxic concentration arised. Comparing to control group ((373.33 &plusmn; 14.65)&times;10(6)/g weight of epididymis and (75.17 &plusmn; 7.68)%), the spermatozoa count and sperm motility had decreased in mix-medium and mix-high dose groups ((321.17 &plusmn; 18.19)&times;10(6)/g weight of epididymis, (225.00 &plusmn; 19.67)&times;10(6)/g weight of epididymis, and (64.67 &plusmn; 9.91)%, (57.83 &plusmn; 9.66)%), and the sperm abnormality rates were higher in mix-medium and mix-high groups ((43.33 &plusmn; 8.66)&permil; and (55.00 &plusmn; 13.80)&permil;) comparing to those in control group ((32.67 &plusmn; 8.17)&permil;). Compared to those in control group (FSH (1.41 &plusmn; 0.20), E(2)(17.32 &plusmn; 2.72), LH (8.75 &plusmn; 1.32) and T (3.45 &plusmn; 0.80) nmol/L), the serum level of FSH (3.14 &plusmn; 0.62) and (3.85 &plusmn; 0.37) nmol/L, E(2) (36.81 &plusmn; 6.68) and (43.76 &plusmn; 9.82) nmol/L in mix-medium and mix-high dose group increased (P < 0.01), while the level of LH (5.21 &plusmn; 1.23) and (4.27 &plusmn; 1.09) nmol/L and T (1.37 &plusmn; 0.38) and (0.73 &plusmn; 0.18) nmol/L decreased (P < 0.01). The morphological and ultramicrostructure results of testicle and epididymis indicated that the mature sperm numbers were decreased, and the cacoplastic sperm head and the tail of spermatozoon were observed in mix-high dose groups.  
ABSTRACT: CONCLUSION: The dichlorvos, dimethoate and malathion mixture had synergistic reproductive toxicity to the testicle and epididymis structure and function, and thus leading to the process of generation cell cytopoiesis abnormalities, simultaneously the hypothalamus-pituitary-gonad axis were also affected and thus resulted in parasecretion.  
MESH HEADINGS: Animals  
MESH HEADINGS: Body Weight  
MESH HEADINGS: Dichlorvos/\*toxicity  
MESH HEADINGS: Dimethoate/\*toxicity  
MESH HEADINGS: Malathion/\*toxicity  
MESH HEADINGS: Male  
MESH HEADINGS: Mice  
MESH HEADINGS: Mice, Inbred ICR  
MESH HEADINGS: Organ Size  
MESH HEADINGS: Sperm Count  
MESH HEADINGS: Sperm Motility  
MESH HEADINGS: Spermatozoa/\*drug effects  
MESH HEADINGS: Toxicity Tests chi

711. Yuan, C. Y.; Cui, Q. M., and Shao, Q. The Effects of Four Kinds of Insecticides on Growth of Green Alga Scenedesmus obliquus. Tianjin University of Science & Technology, Tianjin 300457,China//: 2009; 28, (9): 525-527(CHI) (ENG ABS).   
Rec #: 1910  
Keywords: NON-ENGLISH  
Call Number: NON-ENGLISH (CYP,MLN)  
Notes: Chemical of Concern: CYP,MLN

712. Yue, Y. X.; Li, L.; Liang, Y.; Dong, L. J.; Dong, Q. J., and Zhong, H. Y. Effects of co-existed proteins on measurement of pesticide residues in blood by gas chromatography-mass spectrometry. 2010; 878, 3089-3094.   
Rec #: 16670  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: Accurate measurement of pesticides in biological fluids such as blood is important for quantifying environmental exposures. Beyond sample enrichment and separation, the method presented here is focused on studies of interactions between pesticides and co-existed proteins. It was experimentally demonstrated that entrapped or adsorbed pesticide residues within the folded native structures of proteins were poorly recovered using direct solvent extraction solely. We described here an effective approach termed Enzymatic Digestion-Organic Solvent Extraction (eDOSE) that utilizes the enzymatic approach to disrupt the folded structures of proteins and release entrapped or adsorbed pesticide residues. In this approach. samples were first reduced, alkylated, tryptically digested and then diluted 10 times before the subsequent extraction using an n-hexane solution. Resultant pesticide residues were determined by capillary gas chromatography coupled with a mass spectrometer. Mean recoveries of the 5 organophosphorus pesticides pre-spiked in fish blood including diazinon, parathion-methyl, malathion, parathion-ethyl and ethion were 85%, 95%, 84%, 103%, and 43% respectively using eDOSE strategy but only 24%, 45%, 40%, 27%, and 29% respectively using direct solvent extraction approach. The eDOSE approach was effective for demonstrating the critical role of folded native structure of serum albumin in adsorption of exogenous chemicals. It provides an alterative means for denaturation of proteins when the target analytes are not stable in acidic solution or entrapped within the protein aggregates caused by organic solvents such as acetone that have been applied for protein denaturation. The eDOSE approach should be able to combine with other advanced techniques of enrichment and separation for more efficient and accurate measurement of target compounds present in the context of complex biological systems. This approach can provide wide applications to the analysis of a variety of small molecules including environmental pesticide residues and metabolites as well as other toxins present in cells, tissues and biofluids. (C) 2010 Elsevier B.V. All rights reserved.  
Number of Volumes: 30  
ISI Document Delivery No.: 686BR <Go to ISI>://CCC:000284672300007

713. Zaja, Roko; Loncar, Jovica; Popovic, Marta; Smital, Tvrtko, and Zaja, Roko. First Characterization of Fish P-Glycoprotein (Abcb1) Substrate Specificity Using Determinations of Its Atpase Activity and Calcein-Am Assay With Plhc-1/Dox Cell Line. 2011 May; 103, (1-2): 53-62.   
Rec #: 6380  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: P-glycoprotein (P-gp; abcb1) is one of the major ABC transport proteins that mediates multixenobiotic resistance (MXR) defense in fish. In order to offer a sound evaluation of its ecotoxicological relevance it is critical to characterize substrate specificity of fish P-gp. Measurement of the ATPase activity is a reliable approach often used to discern type of interaction of various drugs with mammalian P-gp. A similar assay has never been used for characterization of P-gp in aquatic organisms and the main goal of this study was to develop a specific ATPase assay for characterization of fish P-gp. For this purpose we have used P-gp enriched membrane vesicles isolated from fish hepatoma PLHC-1/dox cells characterized by high overexpression of P-gp. As additional demonstration of a P-gp specific phenotype, we have quantified transcript expression of a series of eight ABC efflux transporter genes constitutively expressed in PLHC-1 wild type and PLHC-1/dox cells. Transcript expression analysis confirmed high and specific P-gp transcript overexpression in PLHC-1/dox cells. Provided that the transcript abundance is translated to protein, the development of ATPase assay is enabled. Using this model we determined KmATP of 0.4mM, baseline ATPase activity from 35-50nmol/mgPROT/min, and maximal activation of ATPase activity obtained for fish P-gp in our system was 1.8-2.5-fold over baseline. All these values were in good agreement with data previously reported for mammalian P-gp. In order to perform a more detailed characterization of fish P-gp substrate specificity, in the next step of our study we used the developed ATPase assay to test 50 different compounds for their interaction with fish P-gp. The same set of compounds was also tested with calcein-AM (Ca-AM) transport activity assay both using PLHC-1/dox cells and NIH 3T3/MDR1 fibroblast cells overexpressing human P-gp. Our results showed that there is a clear difference for some substancesafive compounds specifically interacted only with fish P-gp, while seven compounds exhibited interaction with human P-gp only. Most of the compounds tested in this study showed similar behavior in respect to fish or human P-gp and relatively high correlation in the interaction potency was found between fish and human P-gp. In summary, the described results represent the first in depth insight into substrate specificity of an important xenobiotic efflux transporter in fish. In addition, our study showed that combination of Ca-AM assay and the developed ATPase assay using inside/out vesicles isolated from PLHC-1/dox cells, offers a high-throughput and reliable approach for identification of environmentally relevant pollutants that interact with fish P-gp.  
Keywords: Q5 01503:Characteristics, behavior and fate  
Keywords: Aquatic organisms  
Keywords: Specificity  
Keywords: Man-induced effects  
Keywords: Substrate specificity  
Keywords: Xenobiotics  
Keywords: Phenotypes  
Keywords: Fibroblasts  
Keywords: Hepatoma  
Keywords: P-Glycoprotein  
Keywords: Pollutants  
Keywords: Interspecific relationships  
Keywords: Membrane vesicles  
Keywords: Vesicles  
Keywords: Drugs  
Keywords: X 24300:Methods  
Keywords: Toxicology  
Keywords: Drug interaction  
Keywords: Membranes  
Keywords: Adenosinetriphosphatase  
Keywords: Data processing  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Environment Abstracts; Toxicology Abstracts; Pollution Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality  
Keywords: Environmental Studies--Toxicology And Environmental Safety  
Keywords: Assays  
Keywords: Transcription  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Proteins  
Keywords: Fish  
Keywords: abundance English. Date revised - 2011-10-01. Last updated - 2011-12-08. DOI - OB-74dcae3b-d4e9-40e4-9dadcsaobj201; 14878605; CS1148326; 0166-445X. SubjectsTermNotLitGenreText - Pollutants; Interspecific relationships; Specificity; Man-induced effects; Phenotypes; Drugs; Toxicology; Drug interaction; Hepatoma; Aquatic organisms; P-Glycoprotein; Data processing; Adenosinetriphosphatase; Membrane vesicles; Transcription; Substrate specificity; Vesicles; Fibroblasts; Membranes; Assays; Proteins; Fish; Xenobiotics; abundance

714. Zakeri, H; Bueckert, R a; Schoenau, J J; Vandenberg, a; Lafond, G P, and Zakeri, H. Controlling Indeterminacy in Short Season Lentil by Cultivar Choice and Nitrogen Management. 2012 May 13; 131, 1-8.   
Rec #: 2660  
Keywords: NO TOXICANT  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Western Canada is a major area of lentil (Lens culinaris Medik.) production and global export, specializing in short season production. In cool or wet years lentil often fails to mature within the 115-d growing season. In the absence of a determinate cultivar, our goal was to test whether current cultivars could mature earlier and without a yield penalty by managing N fertility practices. Eight cultivars of lentil were grown in Saskatchewan during 2006 and 2007 under three N fertility treatments: 50 kg N ha-1, Rhizobium inoculant, and an uninoculated control. Measurements included days to maturity, yield, aboveground biomass (DW), plant total N content, and N2 fixation. Lentil yielded 1900 kg ha-1, 2120 kg ha-1 and 2070 kg ha-1 in control, fertilized, and inoculated treatments, respectively. The N treatments did not affect days to maturity or harvest index (HI). Yield and N2 fixation were unaffected by the N treatments except in drought, where yield was smallest in the control and N2 fixation was smallest in the fertilized treatment. Cultivars CDC Milestone, CDC Red Rider and CDC Rouleau had comparable yield and matured earlier than large-seeded cultivars, demonstrating that growing a recently released small-seeded cultivar gave earlier maturity than N fertility management. Results did not demonstrate any advantage from applying N fertilizer to hasten maturity, to increase HI or yield compared to the current practice of relying on N2 fixation from proper inoculation. Biological N2 fixation is a sustainable and more economical means of supplying N to the lentil crop without the need to apply N fertilizer, particularly with high yielding early maturing cultivars.  
Keywords: Sustainability Science Abstracts; Environment Abstracts  
Keywords: Fertility  
Keywords: exports  
Keywords: maturity  
Keywords: Canada, Saskatchewan  
Keywords: M3 1010:Issues in Sustainable Development  
Keywords: Lens culinaris  
Keywords: Agrochemicals  
Keywords: Crops  
Keywords: ENA 06:Food & Drugs  
Keywords: Fertilizers  
Keywords: Rhizobium  
Keywords: Economics  
Keywords: Cultivars  
Keywords: Nitrogen English. Date revised - 2012-05-01. Last updated - 2012-06-29. DOI - 60b23baf-8bcd-4dea-8296csamfg201; 16604687; 0378-4290. SubjectsTermNotLitGenreText - exports; Fertility; Fertilizers; maturity; Economics; Cultivars; Agrochemicals; Crops; Nitrogen; Rhizobium; Lens culinaris; Canada, Saskatchewan

715. Zayats, M. F.; Leschev, S. M.; Petrashkevich, N. V.; Zayats, M. A.; Kadenczki, L.; Szit+ís, R.; Dobrik, H. Szem+ín, and Kereszt+\_ny, N. Distribution of pesticides in n-hexane/water and n-hexane/acetonitrile systems and estimation of possibilities of their extraction isolation and preconcentration from various matrices. 2013 Apr 24-; 774, (0): 33-43.   
Rec #: 1180  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract Extraction/ Distribution/ Constant/ Pesticide/ Recovery/ Acetonitrile/ Hexane/ Separation/ Preconcentration/ Sample preparation http://www.sciencedirect.com/science/article/pii/S0003267013003188

716. Zettler, J. L. and Cuperus, G. W. Pesticide Resistance in Tribolium castaneum (Coleoptera: Tenebrionidae) and Rhyzopertha dominica (Coleoptera: Bostrichidae) in Wheat. Stored-Prod. Insects Res. Dev. Lab.,USDA,Savannah,GA,USA//: 1990; 83, (5): 1677-1681.   
Rec #: 1350  
Keywords: NO DURATION  
Call Number: NO DURATION (CPYM,DDVP,MLN,PPHN)  
Notes: Chemical of Concern: CPYM,DDVP,MLN,PPHN

717. Zhai, Chen; Sun, Xia; Zhao, Wenping; Gong, Zhili, and Wang, Xiangyou. Acetylcholinesterase biosensor based on chitosan/prussian blue/multiwall carbon nanotubes/hollow gold nanospheres nanocomposite film by one-stepelectrodeposition. 2013 Apr 15-; 42, (0): 124-130.   
Rec #: 2060  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: In this paper, chitosanÇôprussian blueÇômultiwall carbon nanotubes-hollow gold nanospheres (ChitÇôPBÇôMWNTsÇôHGNs) film was fabricated onto the gold electrode surface by one-step electrodeposition method; and then acetylcholinesterase (AChE) and Nafion were modified onto the film to prepare an AChE biosensor. Incorporating MWNTs and HGNs into ChitÇôPB hybrid film promoted electron transfer reaction, enhanced the electrochemical response and improved the microarchitecture of the electrode surface. The morphologies and electrochemistry properties of the composite were investigated by using scanning electron microscopy, transmission electron microscopy, cyclic voltammetry and electrochemical impedance spectroscopy, respectively. Parameters affecting the biosensor response such as pH, enzyme loading and inhibition time were optimized. Based on the inhibition of pesticides on the AChE activity, using malathion, chlorpyrifos, monocrotophos and carbofuran as model compounds, this biosensor showed a wide range, low detection limit, good reproducibility and high stability. Moreover, AChE/ChitÇôPBÇôMWNTsÇôHGNs/Au biosensor can also be used for direct analysis of practical samples, which would be a new promising tool for pesticide analysis. Biosensor/ One-step electrodeposition/ Hollow gold nanospheres/ Acetylcholinesterase http://www.sciencedirect.com/science/article/pii/S095656631200752X

718. Zhang, Anping; Lai, Wenfeng; Sun, Jianqiang; Hu, Guixiang, and Liu, Weiping. Probing the Chiral Separation Mechanism and the Absolute Configuration of Malathion, Malaoxon and Isomalathion Enantiomers by Chiral High Performance Liquid Chromatography Coupled With Chiral Detector-Binding Energy Computations. 2013 Mar 15; 1281, 26-31.   
Rec #: 2380  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: Chiral separation mechanism determination and absolute configuration assignment are fundamental to the development of chiral stationary phases (CSPs) and the evaluation of both the enantioselective bioactivity and fate of chiral compounds. This work investigated the process of chiral separation and the assignment of the absolute configurations of malathion, malaoxon, and isomalathion using chiral high performance liquid chromatography (HPLC) coupled with chiral detector-binding energy computations. Hydrogen bonding was found to be a very important factor in the chiral separation of isomalathion on Chiralpak AD, although it did not exhibit a significant effect on the chiral separation of malathion and malaoxon on Chiralcel OJ. Based on the sign of a chiral detector, the relationships between the cotton effect, optical dispersion and absolute configuration were established for individual enantiomers of malathion, malaoxon, and isomalathion. The elution orders of the enantiomers of malathion and malaoxon on Chiralcel OJ and the stereoisomers of isomalathion on Chiralpak AD predicted by binding energy computations were found to coincide precisely with those observed in the chiral separation experiments. The result suggests that binding energy computations can be used to assign the absolute configuration of the enantiomers of chiral compounds eluted on CSPs. Copyright Â© 2013 Elsevier B.V. All rights reserved.  
Keywords: Index Medicus eng. Date created - 2013-02-19. Date revised - 2013-04-01. Last updated - 2013-04-01. DOI - MEDL-23398995; 23398995; 1873-3778

719. Zhang, Anping and Liu, Weiping. Inclusion Effect of Alpha-Cyclodextrin on Chemical Degradation of Malathionin Water. 2008; 54, 355-362.   
Rec #: 11590  
Keywords: FATE  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: Chemical degradation of malathion in water is one of the important environmental processes of malathion, and plays a critical role in detoxification of malathion. Alpha-cyclodextrin (ĂŽÂ±-CD), one of the cyclic oligosaccharides different from beta-cyclodextrin (ĂŽÂ˛-CD) in glucose units, solubility, and size of cavity, is capable of producing an environmental effect different from those of the latter CD and its derivatives. This work evaluated the effect of ĂŽÂ±-CD on chemical degradation of malathion in water in an attempt to further study the effects of different CDs on hydrolysis of malathion and assess the potential applications of ĂŽÂ±-CD in remediation of malathion contamination. The results showed that ĂŽÂ±-CD had a remarkable facilitative effect on the hydrolysis of malathion in both buffer solutions and natural surface waters. The facilitative effects of ĂŽÂ±-CD were an obverse function of pH value and inverse function of temperature. The rate constant of malathion hydrolysis increased with increasing the concentration of ĂŽÂ±-CD in both types of waters. Urea, a compound widely used in agriculture, decreased the facilitative effect of ĂŽÂ±-CD at 25Ă‚Â°C and pH 9.0. The formation of inclusion complexes between ĂŽÂ±-CD and malathion was evidenced by nuclear magnetic resonance studies.  
Keywords: Cyclodextrin  
Number of Volumes: 3  
New York : Springer-Verlag http://dx.doi.org/10.1007/s00244-007-9055-8

720. Zhang, H.; Wang, X.; Zhuang, S.; Jin, N.; Wang, X.; Qian, M.; Xu, H.; Qi, P.; Wang, Q., and Wang, M. Enantioselective Analysis and Degradation Studies of Isocarbophos in Soils by Chiral Liquid Chromatography-Tandem Mass Spectrometry.   
Rec #: 8280  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: ABSTRACT: An enantioselective method is presented for the determination of isocarbophos in soil by liquid chromatography coupled with tandem mass spectrometry. The pesticide residues in soil samples were extracted with acetonitrile, and complete enantioseparation was obtained on an amylose tris(3,5-dimethylphenylcarbamate) chiral column using acetonitrile/2 mM ammonium acetate solution containing 0.1% formic acid (60:40, v/v) as the mobile phase. The absolute configuration of isocarbophos enantiomers was determined by the combination of experimental and calculated electronic circular dichroism spectra. The method was utilized to investigate the degradation of isocarbophos in soils (Changchun, Hangzhou, and Zhengzhou) under sterilized or native conditions. Isocarbophos enantiomers were configurationally stable in the selected soils, and the pesticide degradation was not enantioselective in the sterilized condition. The degradation behavior of rac-isocarbophos was different under native conditions, with no enantioselectivity in the Changchun soil and with the S-(+)-isocarbophos enriched in the Hangzhou and Zhengzhou soils.  
MESH HEADINGS: \*Chromatography, High Pressure Liquid  
MESH HEADINGS: Circular Dichroism  
MESH HEADINGS: Half-Life  
MESH HEADINGS: Insecticides  
MESH HEADINGS: Malathion/\*analogs &amp  
MESH HEADINGS: derivatives/analysis/chemistry  
MESH HEADINGS: Pesticide Residues/\*analysis/chemistry  
MESH HEADINGS: Soil/\*analysis  
MESH HEADINGS: Stereoisomerism  
MESH HEADINGS: \*Tandem Mass Spectrometry eng

721. Zhang, Hua-Xin; Zhou, Ying, and Liu, E. Biophysical Influence of Isocarbophos on Bovine Serum Albumin: Spectroscopic Probing. 2012 Jun 15; 92, 283-288.   
Rec #: 5730  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Isocarbophos (ICP) is a phosphorous pesticide with high toxicity. It has been detected in several kinds of food and therefore can enter human body. In this paper, spectroscopic approaches including three-dimensional fluorescence (3D-FL) spectroscopy, UV-visible absorption spectroscopy and circular dichroism (CD) spectroscopy were employed to explore the binding of ICP to bovine serum albumin (BSA) at simulated physiological conditions. It was found that the fluorescence quenching of BSA was caused by the formation of ICP-BSA complex at ground state and belonged to static quenching mechanism. The binding constants, the number of binding sites, enthalpy change (Î”H(Î¸)), Gibbs free energy change (Î”G(Î¸)) and entropy change (Î”S(Î¸)) were calculated at four different temperatures according to Scatchard model and thermodynamic equations. To identify the binding location, fluorescence probe techniques were used. The results showed that warfarin, an acknowledged site marker for BSA, could be partially replaced by ICP when ICP was added to warfarin-BSA systems, which demonstrated that ICP primarily bound on Sudlow's site I in domain IIA of BSA molecule. The distance r (3.06 nm) between donor (Trp-212) and acceptor (ICP) was obtained based on FĂ¶rster's non-radiation fluorescence resonance energy transfer (FRET) theory. Furthermore, the CD spectral results indicated that the secondary structure of BSA was changed in presence of ICP. The study is helpful to evaluating the toxicology of ICP and understanding its effects on the function of protein during the blood transportation process. Copyright Â© 2012 Elsevier B.V. All rights reserved.  
Keywords: Animals  
Keywords: Spectrometry, Fluorescence  
Keywords: Index Medicus  
Keywords: Spectrophotometry, Ultraviolet  
Keywords: Circular Dichroism  
Keywords: Malathion -- analogs & derivatives  
Keywords: Protein Binding  
Keywords: Malathion  
Keywords: Binding Sites  
Keywords: Pesticides -- metabolism  
Keywords: Cattle  
Keywords: 0  
Keywords: Pesticides  
Keywords: Serum Albumin, Bovine  
Keywords: isocarbophos  
Keywords: 121-75-5  
Keywords: Serum Albumin, Bovine -- metabolism  
Keywords: Serum Albumin, Bovine -- chemistry  
Keywords: Malathion -- metabolism eng. Date completed - 2012-08-08. Date created - 2012-04-09. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-22446777; 22446777; 1873-3557

722. Zhang, Q.; Jing, Y. H.; Shiue, A.; Chang, C. T.; Ouyang, T.; Lin, C. F., and Chang, Y. M. Photocatalytic degradation of malathion by TiO2 and Pt-TiO2 nanotube photocatalyst and kinetic study. 2013; 48, 686-692.   
Rec #: 16730  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Photocatalytic degradation of malathion, is investigated using Titanium Nanotubes (TNT) and Pt modified TNT (Pt-TNT) photocatalyst in an aqueous solution under 365nm UV lamp irradiation. The TNT photocatalyst is prepared on pretreated strong alkaline solution via the hydrothermal method. The Pt-TNT was prepared by light deposition. The variations in morphology, formation mechanism, phase structure, and pore structure of TNT and Pt-TNT are characterized using UV-Vis, transmission electron microscopy (TEM), and N-2 adsorption/desorption isotherm analyzer, respectively. The effect of the initial malathion concentration, reaction temperature, catalyst loading, solution pH value, irradiation time and Pt loading are studied and the optimized values are obtained. Moreover, the photodegradation performance and kinetics of malathion onto TNT and Pt-TNT are also examined with the aid of model analysis by kinetic data. The results show that under acid conditions, the performance of photocatalysts for treating malathion is high. The time of complete degradation increases with an increase in the initial malathion concentration. The degradation rate decreases with increasing initial malathion concentration. The degradation efficiency can reach 100% under acid conditions for any initial malathion concentration when the reaction time is 70min. In addition, experimental decoloration kinetics data follow the pseudo-first-order reaction model.  
Number of Volumes: 8  
ISI Document Delivery No.: 136FA <Go to ISI>://CCC:000318346200009

723. Zhang, Xiao ; Wallace, Andrew D; Du, Pan; Kibbe, Warren a; Jafari, Nadereh; Xie, Hehuang; Lin, Simon; Baccarelli, Andrea; Soares, Marcelo Bento, and Hou, Lifang. Dna Methylation Alterations in Response to Pesticide Exposure in Vitro. 2012 Aug; 53, (7): 542-549.   
Rec #: 5670  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Although pesticides are subject to extensive carcinogenicity testing before regulatory approval, pesticide exposure has repeatedly been associated with various cancers. This suggests that pesticides may cause cancer via nonmutagenicity mechanisms. The present study provides evidence to support the hypothesis that pesticide-induced cancer may be mediated in part by epigenetic mechanisms. We examined whether exposure to seven commonly used pesticides (i.e., fonofos, parathion, terbufos, chlorpyrifos, diazinon, malathion, and phorate) induces DNA methylation alterations in vitro. We conducted genome-wide DNA methylation analyses on DNA samples obtained from the human hematopoietic K562 cell line exposed to ethanol (control) and several organophosphate pesticides (OPs) using the Illumina Infinium HumanMethylation27 BeadChip. Bayesian-adjusted t-tests were used to identify differentially methylated gene promoter CpG sites. In this report, we present our results on three pesticides (fonofos, parathion, and terbufos) that clustered together based on principle component analysis and hierarchical clustering. These three pesticides induced similar methylation changes in the promoter regions of 712 genes, while also exhibiting their own OP-specific methylation alterations. Functional analysis of methylation changes specific to each OP, or common to all three OPs, revealed that differential methylation was associated with numerous genes that are involved in carcinogenesis-related processes. Our results provide experimental evidence that pesticides may modify gene promoter DNA methylation levels, suggesting that epigenetic mechanisms may contribute to pesticide-induced carcinogenesis. Further studies in other cell types and human samples are required, as well as determining the impact of these methylation changes on gene expression. Copyright Â© 2012 Wiley Periodicals, Inc.  
Keywords: 0  
Keywords: Humans  
Keywords: DNA Methylation -- drug effects  
Keywords: Principal Component Analysis  
Keywords: Index Medicus  
Keywords: Pesticides  
Keywords: Bayes Theorem  
Keywords: Computational Biology  
Keywords: K562 Cells  
Keywords: Sequence Analysis, DNA  
Keywords: Cluster Analysis  
Keywords: Pesticides -- toxicity eng. Date completed - 2012-10-19. Date created - 2012-08-13. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-22847954; 22847954; 1098-2280

724. Zhang, Yanming; Pagilla, Krishna, and Zhang, Yanming. Treatment of Malathion Pesticide Wastewater With Nanofiltration and Photo-Fenton Oxidation. 2010 Nov 30; 263, (1-3): 36-44.   
Rec #: 3900  
Keywords: FATE  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Pesticide industry wastewater treatment combining nanofiltration (NF) and advanced oxidation process (AOP) using photo-Fenton's reagent was investigated in the laboratory. During the first stage of study, NF and AOP were used independently to treat malathion as a model substrate in pesticide industry wastewater (10mg/L) to produce high quality effluent (less than 0.1mg/L). Of the three types of NF membranes used (NF-A, NF90, and NF270), NF270 membrane has the largest water flux, but did not meet the desired effluent concentration of 0.1mg/L. NF90 and NF-A membranes could reduce the malathion concentration to 0.06mg/L, but provided a lower flux rate compared to NF270 membrane. AOP experiments were conducted at pH 3 to determine the optimum initial ratios of chemicals, which were malathion: H2O2=1:100 and H2O2:Fe(II)=40:1. Experiments were also carried out at different initial malathion concentrations to determine the reaction time for the desired effluent under the optimum conditions. It took 1h, 2.25h and 3h to reduce the malathion from different initial concentrations (1, 10, and 33mg/L) to the desired level. During the second stage of study, a specific energy consumption was determined for each treatment scheme to evaluate the economic feasibility of the NF-AOP combination. AOP is the significant energy consumer in the combined process and hence should be minimized by enhancing NF.  
Keywords: Q2 02424:Applied economics  
Keywords: Aqualine Abstracts; ASFA 2: Ocean Technology Policy & Non-Living Resources; Environment Abstracts; Water Resources Abstracts  
Keywords: Chemicals  
Keywords: Reagents  
Keywords: Membranes  
Keywords: Chemistry  
Keywords: Stage Treatment  
Keywords: ENA 09:Land Use & Planning  
Keywords: SW 3030:Effects of pollution  
Keywords: AQ 00008:Effects of Pollution  
Keywords: Effluents  
Keywords: Wastewater treatment  
Keywords: Malathion  
Keywords: Sewage disposal  
Keywords: Filtration  
Keywords: Economic feasibility  
Keywords: Agricultural Chemicals  
Keywords: Industrial wastes  
Keywords: Oxidation  
Keywords: Pesticides  
Keywords: Economics  
Keywords: Consumers  
Keywords: Fluctuations  
Keywords: Wastewater Treatment English. Date revised - 2011-10-01. Last updated - 2011-12-13. DOI - OB-d1885631-dc2d-438e-a591csamfg201; 13719595; CS1132521; 0011-9164. SubjectsTermNotLitGenreText - Sewage disposal; Economic feasibility; Industrial wastes; Oxidation; Pesticides; Consumers; Effluents; Wastewater treatment; Chemicals; Filtration; Membranes; Economics; Malathion; Reagents; Agricultural Chemicals; Stage Treatment; Fluctuations; Wastewater Treatment

725. Zhang, Yuanyuan; Xiao, Zhiyong; Chen, Fang; Ge, Yiqiang; Wu, Jihong, and Hu, Xiaosong. Degradation Behavior and Products of Malathion and Chlorpyrifos Spiked in Apple Juice by Ultrasonic Treatment. 2010 Jan; 17, (1): 72-77.   
Rec #: 4480  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Apple juice (13 degrees Brix) spiked with malathion and chlorpyrifos (2-3 mg l(-1) of each compound) was treated under different ultrasonic irradiations. Results showed that ultrasonic treatment was effective for the degradation of malathion and chlorpyrifos in apple juice, and the output power and treatment time significantly influenced the degradation of both pesticides (por=0.90). The kinetics parameters indicated that chlorpyrifos was much more labile to ultrasonic treatment than malathion. Furthermore, malaoxon and chlorpyrifos oxon were identified as the degradation products of malathion and chlorpyrifos by gas chromatography-mass spectrometry (GC-MS), respectively. The oxidation pathway through the hydroxyl radical attack on the P=S bond of pesticide molecules was proposed.  
Keywords: 2921-88-2  
Keywords: Chlorpyrifos -- chemistry  
Keywords: Index Medicus  
Keywords: Food Contamination -- analysis  
Keywords: Malus -- radiation effects  
Keywords: Malathion -- radiation effects  
Keywords: Malathion  
Keywords: Malus -- chemistry  
Keywords: Chlorpyrifos -- radiation effects  
Keywords: Chlorpyrifos  
Keywords: Malathion -- chemistry  
Keywords: Beverages -- analysis  
Keywords: 121-75-5 eng. Date completed - 2009-11-30. Date created - 2009-09-15. Date revised - 2012-12-20. Last updated - 2013-01-19. DOI - MEDL-19560957; 19560957; 1873-2828

726. Zhao, P.; Wang, Y., and Jiang, H. Biochemical Properties, Expression Profiles, and Tissue Localization of Orthologous Acetylcholinesterase-2 in the Mosquito, Anopheles gambiae. 2013; 43, (3): 260-271.   
Rec #: 1850  
Keywords: IN VITRO  
Call Number: NO IN VITRO (CBL,MLO)  
Notes: Chemical of Concern: CBL,MLO

727. Zhao, Picheng; Zhu, Kun Yan; Jiang, Haobo, and Zhao, Picheng. Heterologous Expression, Purification, and Biochemical Characterization of a Greenbug (Schizaphis Graminum) Acetylcholinesterase Encoded by a Paralogous Gene (Ace-1). 2010 Jan; 24, (1): 51-59.   
Rec #: 7220  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN   
Abstract: Abstract: Acetylcholinesterase is a critical enzyme in the regulation of cholinergic neurotransmission in insects. To produce Schizaphis graminum acetylcholinesterase-1 for structure-function analysis, we constructed a recombinant baculovirus to infect Sf9 cells, which secreted the soluble protein at a final concentration of 4.0 mg/L. The purified enzyme had an apparent Mr of 70 and 130 kDa in the reducing and nonreducing SDS-polyacrylamide gels, respectively, indicating that it formed a dimer via an intermolecular disulfide bond. The fresh enzyme had a specific activity of 245 U/mg, which stabilized at a lower level (115 U/mg) in storage. The Michaelis constant and maximum velocity were 88.3 +/- 9.6 Delta \*mM and 133.2 +/- 1.6 U/mg for acetylthiocholine iodide, 113.9 +/- 12.5 Delta \*mM and 106.4 +/- 3.0 U/mg for acetyl( Delta \*b-methyl)thiocholine iodide, 68.9 +/- 7.8 Delta \*mM and 76.7 +/- 1.0 U/mg for propionylthiocholine iodide, and 201.1 +/- 21.0 Delta \*mM and 4.4 +/- 0.1 U/mg for S-butyrylthiocholine iodide, respectively. The IC50 values (5 min, room temperature) of ethopropazine, BW284C51, carbaryl, eserine, malaoxon, and paraoxon were 102, 1.6,0.9,0.2,0.06,0.016 Delta \*mM, respectively. The bimolecular reaction constants (ki) were (6.50 +/- 0.40) X 104 for carbaryl, (1.00 +/- 0.16) X 105 for eserine, (4.70 +/- 0.13) X 105 for malaoxon, and (9.06 +/- 0.23) X 105 M-1 min-1 for paraoxon. The enzyme was also inhibited by one of its products, choline, at concentrations higher than 20 mM, suggesting that choline bound to an anionic site and regulated the enzymatic activity. [copy 2010 Wiley Periodicals, Inc. J Biochem Mol Toxicol 24:51-59, 2010; Published online in Wiley InterScience (www.interscience.wiley.com). DOI 10.1002/jbt.20311  
Keywords: Temperature effects  
Keywords: Choline  
Keywords: Biochemistry  
Keywords: Schizaphis graminum  
Keywords: iodides  
Keywords: Acetylcholinesterase  
Keywords: G 07810:Insects  
Keywords: Genetics Abstracts; Environment Abstracts; Toxicology Abstracts  
Keywords: Temperature  
Keywords: Disulfide bonds  
Keywords: enzymatic activity  
Keywords: Velocity  
Keywords: Carbaryl  
Keywords: Enzymes  
Keywords: Paraoxon  
Keywords: insects  
Keywords: ENA 02:Toxicology & Environmental Safety  
Keywords: Gels  
Keywords: Neurotransmission  
Keywords: Proteins  
Keywords: Enzymatic activity  
Keywords: Baculovirus  
Keywords: X 24330:Agrochemicals  
Keywords: Internet English. Date revised - 2011-08-01. Last updated - 2012-06-29. DOI - 834eb2ae-907d-41ec-b2cbcsaobj201; 15242307; 1099-0461. SubjectsTermNotLitGenreText - Gels; Temperature effects; Choline; Neurotransmission; Acetylcholinesterase; Disulfide bonds; Enzymes; Carbaryl; Enzymatic activity; Paraoxon; Internet; Biochemistry; iodides; Temperature; enzymatic activity; Proteins; Velocity; insects; Schizaphis graminum; Baculovirus

728. Zhao, Wei-jun; Sun, Xiao-ke; Deng, Xiao-ni; Huang, Lin; Yang, Ming-min, and Zhou, Zhi-ming. Cloud point extraction coupled with ultrasonic-assisted back-extraction for the determination of organophosphorus pesticides in concentrated fruit juice by gas chromatography with flame photometric detection. 2011 Jul 15-; 127, (2): 683-688.   
Rec #: 2220  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: A new method for the determination of nine organophosphorus pesticides (OPPs): Dichlorvos, methamidophos, acephate, diazinon, dimethoate, chlorpyrifos, parathion-methyl, malathion and parathion-ethyl in concentrated fruit juice was developed using the cloud point extraction coupled with ultrasonic-assisted back-extraction prior to gas chromatography with flame photometric detection (GC-FPD) analysis. The parameters and variables that affect the extraction were investigated. Under optimum conditions: a solution containing 6% (W/V) polyethylene glycol 6000 (PEG 6000) and 20% (W/V) Na2SO4 for the extraction of the OPPs. The coacervation phase obtained was back extracted with ethyl acetate. The upper ethyl acetate solution was centrifugated simply for further cleanup for the sake of automatic injection. A preconcentration factor of 50 was obtained for these nine pesticides. Using this method, the limits of detection (LOD) and limits of quantification (LOQ) were in the range of 0.5Çô3.0 and 1.5Çô9.0 ++g kgêÆ1 in concentrated fruit juice, respectively; the relative standard deviations (RSD) were &lt;9%. Cloud point extraction (CPE)/ Organophosphorus pesticides (OPPs)/ Ultrasonic-assisted back-extraction/ Gas chromatography with flame photometric detection (GC-FPD)/ Concentrated fruit juice http://www.sciencedirect.com/science/article/pii/S0308814611000252

729. Zhao, X-H; Bo, L-Y; Wang, J; Li, T-J, and Zhao, X-H. Survey of Seven Organophosphorus Pesticides in Drinking Water, Feedstuffs and Raw Milk From Dairy Farms in the Province Heilongjiang During 2008-2009. 2012; 67, (3): 293-296.   
Rec #: 2950  
Keywords: HUMAN HEALTH  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Samples of drinking water (56), feedstuffs (73) and raw milk (56) were collected on-site from 19 dairy farms in the Province Heilongjiang, China during 2008-2009, and measured by a gas chromatographic method after extraction and purification to investigate their pollution about 7 organophosphorus pesticides (OPPs) including dimethoate, fenthion, malathion, methyl parathion, monocrotophos, phorate and trichlorphon. The survey showed that 16 drinking water, 33 feedstuffs and 16 raw milk samples contained one to four detectable OPPs with levels of 0.008-0.039, 0.010-0.140 and 0.006-0.048 mg times kg super(-1), respectively. Dimethoate, monocrotophos, phorate and trichlorphon were the most detectable while other three OPPs were the less detectable. OPPs were detected in a considerable occurrence in the raw milk but their residue level in most positive milk samples (12 out of 16) was less than 0.020 mg times kg super(-1), implying the raw milk had very low safety risk in practical.Original Abstract: Proben von Trinkwasser (56), Futtermitteln (73) und Rohmilch (56) wurden vor Ort in 19 Milcherzeugerbetrieben in der ProvinzHeilongjiang, China, im Zeitraum 2008-2009 gezogen und gaschromatografisch nach Extraktion und einer entsprechenden Reinigung auf sieben Organophosphor-Pestizide (OPPs) untersucht (Dimethoat, Fenthion, Malathion, Methylparathion, Monocrotophos, PhorateandTrichlorphon). Die Untersuchung ergab, dass 16 Trinkwasser-, 33 Futtermittel-und 16 Rohmilchproben ein bis vier nachweisbare OPP(s) in Konzentrationen von 0,008-0,039, 0,010-0,140 und 0,006-0,048 mg/kg aufwiesen. Dimethoat, Monocrotophos, PhorateandTrichlorphon waren am haeufigsten nachweisbar, waehrend die anderen drei Pestizide seltener gefunden wurden. Die OPPs wurden somit in einem betraechtlichen Anteil in der Rohmilch gefunden, wobei allerdings die Rueckstandskonzentrationen in den meisten positiven Milchproben (12 von 16) unterhalb 0,020 mg/kg lagen. Diese Werte zeigen, dass die Rohmilch nur ein sehr geringes gesundheitliches Risiko aufweist.  
Keywords: Milk  
Keywords: Residues  
Keywords: P 2000:FRESHWATER POLLUTION  
Keywords: Pesticides  
Keywords: Dimethoate  
Keywords: Drinking water  
Keywords: Pollution Abstracts  
Keywords: Malathion  
Keywords: Dairy farms  
Keywords: Parathion English. Date revised - 2012-11-01. Last updated - 2012-12-03. DOI - MD-0019271619; 17094885; 0026-3788. SubjectsTermNotLitGenreText - Milk; Residues; Pesticides; Dimethoate; Drinking water; Malathion; Dairy farms; Parathion

730. Zhao, X. H. and Wang, J. Degradation of seven organophosphorus pesticides in the fresh milk heated at 63 degrees C and two pHs. 2012; 67, 192-194.   
Rec #: 16810  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Fresh bovine milk pre-adjusted to a pH of 6.6 or 7.5 was spiked with seven organophosphorus pesticides including dimethoate, fenthion, malathion, methyl parathion, monocrotophos, phorate and trichlorphon, and then heated at 63 degrees C to investigate the degradation behaviors of these pesticides. The pesticide residues were extracted from the milk with organic solvent and analyzed by gas chromatography after purification. The degradation rate constant of the pesticides was calculated based on the degradation is a first order reaction. The calculation results show that the degradation of the pesticides except for fenthion was enhanced by the slight alkaline pH, while dimethoate, methyl parathion and trichlorphon were more susceptible to the slight alkaline pH. Totally, dimethoate and malathion (or monocrotophos) degraded faster (or slowest), indicating that they were (or it was) more instable (or most stable).  
Number of Volumes: 2  
ISI Document Delivery No.: 927GG <Go to ISI>://CCC:000302894600020

731. Zhao, X. H.; Wang, J.; Li, T. J., and Zhang, Y. H. Degradation behaviors of seven organophosphorus pesticides in skimmed milk inoculated with Streptococcus thermophilus or Lactobacillus helveticus. 2012; 67, 399-401.   
Rec #: 16820  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Streptococcus (S.) thermophilus or Lactobacillus (L.) helveticus were inoculated into skimmed milk at 42 degrees C to study their impacts on the degradation behaviors of seven selected organophosphorus pesticides (OPPs) including dimethoate, fenthion, malathion, methyl parathion, monocrotophos, phorate and trichlorphon. The residual OPPs in the spiked milk were extracted with an acetone-acetonitrile solvent in proportion of 1:4 (v/v), purified with dichloromethane and quantified in a gas chromatography. The analysis results showed that during an incubation of 24 h, the residual amount of the investigated OPPs in the milk decreased gradually about 23-49% as the occurrence of OPPs degradation. The applied strains exhibited accelerating effects mainly on the degradation of methyl parathion, monocrotophos, phorate and trichlorphon. Among the OPPs investigated, both phorate and trichlorphon were more susceptive to the strains with an enhanced degradation rate about 109-114% and 61-77%, while malathion exhibited resistance to the strains with an unchanged degradation rate. The present study shows that some lactic acid bacteria might have the ability to degrade some OPPs and provide safety help to some fermented foods.  
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732. Zhao, Xin-Huai; Wang, Jing, and Zhao, Xin-Huai. A Brief Study on the Degradation Kinetics of Seven Organophosphorus Pesticides in Skimmed Milk Cultured With Lactobacillus Spp. At 42 Degree C. 2012 Mar 1; 131, (1): 300-304.   
Rec #: 2780  
Keywords: CHEM METHODS  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Seven organophosphorus pesticides (OPPs) including dimethoate, fenthion, malathion, methyl parathion, monocrotophos, phorate and trichlorphon were added to skimmed milk. The milk was inoculated with one strain of Lactobacillus spp. including L. bulgaricus, L. paracasei and L. plantarum, and cultured at 42 degree C for 24 h to investigate their impacts on degradation kinetics of the OPPs. The residual OPPs in the milk were extracted by an extraction solvent and quantified in a gas chromatography after purification. Degradation rate constant and half live periods of the OPPs were calculated from a first-order reaction kinetics model. The result shows that the selected Lactobacillus spp. exhibited some acceleration on OPPs degradation totally. Dimethoate and methyl parathion were more stable but malathion was the most labile. Both L. bulgaricus and L. plantarum had stronger acceleration on the degradation of the OPPs studied.  
Keywords: Pesticides (organophosphorus)  
Keywords: Milk  
Keywords: phorate  
Keywords: Solvents  
Keywords: monocrotophos  
Keywords: Fenthion  
Keywords: Malathion  
Keywords: Lactobacillus  
Keywords: Gas chromatography  
Keywords: Kinetics  
Keywords: Microbiology Abstracts B: Bacteriology  
Keywords: Purification  
Keywords: Dimethoate  
Keywords: Methyl parathion  
Keywords: J 02300:Methods English. Date revised - 2011-11-01. Last updated - 2012-03-29. DOI - 68718d63-5a6a-4ba3-bc9dcsamfg201; 15910307; 0308-8146. SubjectsTermNotLitGenreText - Pesticides (organophosphorus); Milk; Gas chromatography; phorate; Kinetics; monocrotophos; Solvents; Purification; Methyl parathion; Dimethoate; Fenthion; Malathion; Lactobacillus

733. Zhou, Jiong-Lin; Lian, Yong; Peng, Shuang-Qing, and Zhou, Jiong-Lin. Induction of Micronuclei in Hepg2 Cell Line by Dichlorvos, Dimethoate and Malathion. 2010 Apr; 27, (4): 287-289.   
Rec #: 4250  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: Abstract: Objective: Micronucleus test (MNT) was used to evaluate the single and combined genotoxicity of dichlorvos (DDVP), dimethoate (DM) and malathion (Mal) in HepG2 cell line, and 2x2 factorial design was adopted to elucidate the combined genotoxic effects. Methods: In cytotoxicity test, HepG2 cells were exposed to the three OPPs (DDCP, DM, Mal) for 4 h respectively, and the doses at which cell viability above 80% were selected for the MNT, DDVP: 3.125-25 kg/ml,DM: 25-200 kg/ml, Mal: 50-400 kg/ml, the micronucleated cell (MNC) rates and the replicative index(RI) were calculated. The combined genotoxicity of them was investigated with their doses as follows: low dose (DDVP: 3.125 kg/ml, DM: 25 kg/ml, Mal: 50 (kg/ml); high dose (DDVP: 12.5 kg/ml, DM: 100 kg/ml, Mal: 200 kg/ml). Results In MNT, after treatment of HepG2 cells with DDVP, DM or Mal alone for 4 h, the MNC rates were increased in a dose-response manner (DDVP: r=0.955, P<0.01; DM: r=0.976, P<0.01; Mal: r=0.950, P < 0.01), and the MNC rates were statistically higher than solvent control at the two or three higher doses of DDVP,DM and Mal. RI of HepG2 cells decreased in a dose-dependent manner with increasing DDVP dosage. RI also decreased with increasing DM or Mal dosage,but not revealed dose-response relationships. The 2 x 2 factorial analysis revealed that at low mixed concentration, DDVP and DM, DDVP and Mal, as well as DM and Mal exhibited interactions (P < 0.05) characterized as synergistic effect; but at high mixed concentration, their interactions (P < 0.05) were characterized as antagonistic effect. Conclusion: DDVP, DM and Mal can induce micronucles both in sole way and combined way, but the combined effects is concerned with the combined dosages.  
Keywords: Synergistic effects  
Keywords: Genotoxicity  
Keywords: Micronuclei  
Keywords: Solvents  
Keywords: dichlorvos  
Keywords: Malathion  
Keywords: Cytotoxicity  
Keywords: Dose-response effects  
Keywords: Dimethoate  
Keywords: Toxicology Abstracts  
Keywords: dimethoate  
Keywords: X 24330:Agrochemicals  
Keywords: Dichlorvos Chinese. Date revised - 2010-06-01. Last updated - 2013-04-19. DOI - 19e300c4-9409-4398-8320csamfg201; 12939068; 1001-5914. SubjectsTermNotLitGenreText - Cytotoxicity; Dose-response effects; Micronuclei; Genotoxicity; Solvents; Dimethoate; Malathion; Dichlorvos; Synergistic effects; dichlorvos; dimethoate

734. -îolovi-ç, Mirjana B.; Krsti-ç, Danijela Z.; U+í-çumli-ç, Gordana S., and Vasi-ç, Vesna M. Single and simultaneous exposure of acetylcholinesterase to diazinon, chlorpyrifos and their photodegradation products. 2011 May; 100, (1): 16-22.   
Rec #: 1080  
Keywords: IN VITRO  
Notes: Chemical of Concern: MLN  
Abstract: In vitro inhibition of electric eel acetylcholinesterase (AChE) by single and simultaneous exposure to organophosphorus insecticides diazinon and chlorpyrifos, and their transformation products, formed due to photoinduced degradation, was investigated. Increasing concentrations of diazinon, chlorpyrifos and their oxidation products, diazoxon and chlorpyrifos-oxon, inhibited AChE in a concentration-dependent manner. IC50 (20 min) values, obtained from the inhibition curves, were (in mol/l): (5.1 -\_ 0.3) +ů 10ęĆ8, (4.3 -\_ 0.2) +ů 10ęĆ6 and (3.0 -\_ 0.1) +ů 10ęĆ8 for diazoxon, chlorpyrifos and chlorpyrifos-oxon, respectively, while maximal diazinon concentration was lower than its IC50 (20 min). Calculated KI values, in mol/l, of 7.9 +ů 10ęĆ7, 9.6 +ů 10ęĆ6 and 4.3 +ů 10ęĆ7 were obtained for diazoxon, chlorpyrifos and chlorpyrifos-oxon, respectively. However, 2-isopropyl-4-methyl-6-pyrimidinol (IMP) and 3,5,6-trichloro-2-pyridinol, diazinon and chlorpyrifos hydrolysis products, did not noticeably affect the enzyme activity at all investigated concentrations. Additive inhibition effect was achieved for lower concentrations of the inhibitors (diazinon/diazoxon \_+1 +ů 10ęĆ4/1 +ů 10ęĆ8 mol/l i.e., chlorpyrifos/chlorpyrifos-oxon \_+2 +ů 10ęĆ6/3 +ů 10ęĆ8 mol/l), while an antagonistic effect was obtained for all higher concentrations of the organophosphates. Inhibitory power of 1 +ů 10ęĆ4 mol/l diazinon irradiated samples can be attributed mostly to the formation of diazoxon, while the presence of non-inhibiting photodegradation product IMP did not affect diazinon and diazoxon inhibitory efficiencies. Diazinon/ Chlorpyrifos/ Photodegradation products/ Acetylcholinesterase/ Simultaneous exposure http://www.sciencedirect.com/science/article/pii/S0048357511000204