APPENDIX F. Multi-Active Ingredients Bibliography

*Methomyl Multi-AI Bibliography **Accepted** Papers*

1. Antal, M.; Bedo, M.; Constantinovits, G.; Nagy, K., and Szepvolgyi, J. Studies on the Interaction of Methomyl and Ethanol in Rats. BCM,GRO,BEH,CELORAL,MIXTURE; 1979 Aug; 17, (4): 333-338.
   Rec #: 210
   Call Number: LITE EVAL CODED(MOM),OK(ETHN)
   Notes: EcoReference No.: 74539
   Chemical of Concern: MOM,ETHN

2. Birchfield, W. Evaluation of Nematocides for Control of Reniform Nematodes on Cotton. POPSOIL,ENV; 1968; 52, (10): 786-789.
   Rec #: 760
   Call Number: LITE EVAL CODED(MOM),OK(DPDP,ADC,EP),NO COC(CLPM,CLP),NO MIXTURE(DS)
   Notes: EcoReference No.: 89326
   Chemical of Concern: DPDP,ADC,DS,EP,MOM

3. Bracy, O. L.; Doyle, R. S.; Kennedy, M.; McNally, S. M.; Weed, J. D., and Thorne, B. M. Effects of Methomyl and Ethanol on Behavior in the Sprague-Dawley Rat. BEH,GRO,BCMORAL,MIXTURE; 1979 Jan; 10, (1): 21-25.
   Rec #: 160
   Call Number: LITE EVAL CODED(MOM),OK(ETHN)
   Notes: EcoReference No.: 74347
   Chemical of Concern: MOM,ETHN

4. Carson, W. G.; White, K. K., and Trumble, J. T. Impact of Insecticides on Celery Insects 1994. POP,MORENV,MIXTURE; 1996; 21, 105-107.
   Rec #: 380
   Call Number: LITE EVAL CODED(DKGNa,TUZ,MOM,HFZ,BFT,AV),OK(ALL CHEMS)//PHASE II COMPLETE
   Notes: EcoReference No.: 82466
   Chemical of Concern: DKGNa,MOM,TUZ,HFZ,BFT,AV

5. ---. Impact of Insecticides on Lepidopterous Larvae and Leafminers on Tomatoes, 1992. POPSOIL,ENV,MIXTURE; 1993; 18, 171-172.
   Rec #: 350
   Call Number: LITE EVAL CODED(DKGNa,MOM)
   Notes: EcoReference No.: 82241
   Chemical of Concern: MOM,DKGNa

6. Chappell II, G. F. and Herbert, D. A. Jr. Selected Insecticides for Corn Earthworm in 'Pioneer 9444' Soybean in Virginia, 1994. POPSOIL,ENV,MIXTURE; 1995; 20, 234-235 (112F).
   Rec #: 80
   Call Number: LITE EVAL CODED(LCYT,TDC,PMR,CBL),EFFICACY(TLM)
   Notes: EcoReference No.: 89065
   Chemical of Concern: LCYT,TDC,TLM,PMR,CBL

7. De Cal, A. and Melgarejo, P. Impact of Pesticides on Non-Target Fungi of Peach Twigs. MORSOIL,ENV,MIXTURE; 1988; 2, 733-738.
   Rec #: 100
   Call Number: LITE EVAL CODED(MOM),OK(THM),TARGET(Captan,BMY)
   Notes: EcoReference No.: 71766

Chemical of Concern: Captan,MOM,DINO,BMY,THM

8. El-Guindy, M. A.; El-Refai, A. R. A., and Saleh, W. S. The Role of Esterases in the Defence Mechanism Against Intoxication by Fenitrothion in Susceptible and Field Tolerant Strains of Spodoptera littoralis Boisd. MOR,BCMTOP,MIXTURE; 1982; 24, (4): 100-108.
   Rec #: 130
   Call Number: LITE EVAL CODED(SPS,CYF,PMR,FNV,CYP,EN,PFF,CPY,MTM,MOM,DM,TBF,FNT),NO MIXTURE(PPB)
   Notes: EcoReference No.: 92701
   Chemical of Concern: SPS,CYF,PMR,FNV,CYP,EN,PFF,CPY,MTM,MOM,DM,PPB,TBF,FNT

9. Garg, D. P.; Bansal, A. K.; Malhotra, A.; Kiran, R., and Dhawan, D. K. Methomyl Induced Hematological and Biochemical Alterations - Protection by Vitamin E. BCM,PHY,CELORAL,MIXTURE; 2009; 93, (3): 127-132 (doi: 10.1016/j.pestbp.2009.01.001).
   Rec #: 180
   Call Number: LITE EVAL CODED(MOM)
   Notes: EcoReference No.: 118558
   Chemical of Concern: MOM

10. Garg, D. P.; Bhalla, P.; Kiran, R.; Bansal, A., and Dhawan, D. K. Vitamin E-Mediated Protection on Methomyl-Induced Alterations in Rat Liver. BCM,CEL,PHYORAL,INJECT,MIXTURE; 2009; 91, (4): 685-698.
    Rec #: 170
    Call Number: LITE EVAL CODED(MOM)
    Notes: EcoReference No.: 118552
    Chemical of Concern: MOM

11. 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,MORINJECT,TOP; 1980; 14, (1): 81-85.
    Rec #: 750
    Call Number: LITE EVAL CODED(MOM),OK(ALL CHEMS),NO MIXTURE(FNV,MLN,CYP,PMR)
    Notes: EcoReference No.: 89315
    Chemical of Concern: PMR,DEF,PFF,SPS,CYP,FNV,MLN,AZ,MP,ACP,CBL,MOM

12. Giraddi, R. S.; Dasareddy, S. V., and Lingappa, S. L. Bioefficacy of New Molecules of Insecticides Against Gram Pod-Borer (Helicoverpa armigera) in Pigeonpea (Cajanus cajan). POPENV; 2002; 72, (5): 311-312.
    Rec #: 460
    Call Number: LITE EVAL CODED(MFZ,MOM,LUF,TDC),NO MIXTURE(CPY)//PHASE II COMPLETE - no dose response
    Notes: EcoReference No.: 82560
    Chemical of Concern: MFZ,MOM,LUF,TDC,CPY

13. Mascarenhas, R. N.; Fitzpatrick, B. J.; Boethel, D. J., and Leonard, B. R. Evaluation of Selected Experimental and Standard Insecticides Against Soybean Looper and Beet Armyworm in Northeast LA, 1995. POPENV,MIXTURE; 1996; 21, 292 (128F).
    Rec #: 290
    Call Number: LITE EVAL CODED(TDC,PMR)
    Notes: EcoReference No.: 92371
    Chemical of Concern: SS,TDC,PMR

14. Mascarenhas, R. N.; Fitzpatrick, B. J.; Boyd, M. L.; Clemens, C. G.; Boethel, D. J.; Vidrine, P. R., and Moore, S. H. Evaluation of Selected Experimental and Standard Insecticides Against Soybean Looper, 1996.

POPENV,MIXTURE; 1997; 22, 314 (126F).
Rec #: 300
Call Number: LITE EVAL CODED(TDC,PMR),NO MIXTURE(MFZ,ACP)
Notes: EcoReference No.: 92283
Chemical of Concern: TDC,SS,MFZ,PMR,EMMB,ACP

15. McPherson, R. M.; Taylor, J. D., and Crowe, B. D. Control of Insect Pests on Georgia Soybeans, 1997. POPSOIL,ENV,MIXTURE; 1998; 23, 283-284 (136F).
Rec #: 370
Call Number: LITE EVAL CODED(TDC,PMR)
Notes: EcoReference No.: 92340
Chemical of Concern: TDC,PMR,DFZ,SS

16. ---. Velvetbean Caterpillar Control on Georgia Soybeans, 1994. POP,BEHENV,MIXTURE; 1995; 20, 242-243 (121F).
Rec #: 360
Call Number: LITE EVAL CODED(TDC,PMR)
Notes: EcoReference No.: 92321
Chemical of Concern: TDC,PMR

17. Oloumi-Sadeghi, H. and Eastman, C. E. Control of Diamondback Moth on Canola, 1991. POPSOIL,ENV,MIXTURE; 1992; 17, 114.
Rec #: 340
Call Number: LITE EVAL CODED(DKG,MOM,PMR,ES)
Notes: EcoReference No.: 82240
Chemical of Concern: MOM,PMR,ES,DKG

18. Raman, K. V. and Palacios, M. Chemical Control of Potato Tuber Moth (Phthorimaea operculella). POP,PHYSOIL,ENV,MIXTURE; 1986; 7, 20-21.
Rec #: 270
Call Number: LITE EVAL CODED(MOM),TARGET(CBL),OK(ALD,CBF,FNV)
Notes: EcoReference No.: 77263
Chemical of Concern: ALD,CBL,CBF,MOM,FNV

19. Riskallah, M. R. Influence of Posttreatment Temperature on the Toxicity of Pyrethroid Insecticides to Susceptible and Resistant Larvae of the Egyptian Cotton Leafworm, Spodoptera littoralis (Boisd.). MORTOP,MIXTURE; 1984; 40, (2): 188-190.
Rec #: 460
Call Number: LITE EVAL CODED(CPY,MOM,PMR,FNV,DM,CYP,FYT),NO COC(TBF)
Notes: EcoReference No.: 92552
Chemical of Concern: CPY,MOM,PMR,FNV,DM,CYP,FYT

20. Schmitt, D. P.; Norton, D. C., and Hinz, P. Control of Meloidogyne hapla on Peony. POP,GROSOIL,ENV; 1974; 58, (9): 860-864.
Rec #: 740
Call Number: LITE EVAL CODED(MOM),OK(CLPM,DZ,EP,CBF,ADC,DPDP,FMP),NO MIXTURE(OML,CLP,EDB)
Notes: EcoReference No.: 89251
Chemical of Concern: CLPM,CBF,DPDP,ADC,EP,MOM,DZ,FMP,OML,CLP,EDB

21. Schuster, D. J. Armyworm and Tomato Pinworm Control on Fresh Market Tomatoes in West-Central Florida, Fall 1992. POP,PHYENV; 1994; 19, 154 (ABS.No.118E).
Rec #: 510
Call Number: LITE EVAL CODED(DKGNa,MOM,CPY),NO MIXTURE(AZD,EFV)//PHASE II COMPLETE - not all chems coded
Notes: EcoReference No.: 82733

Chemical of Concern: DKGNa,AZD,MOM,EFV,CPY

22. Tejada, A. W.; Bajet, C. M.; Magbauna, M. G.; Gambalan, N. B.; Araez, L. C., and Magallona, E. D. Toxicity of Pesticides to Target and Non-Target Fauna of the Lowland Rice Ecosystem. MORWATER,AQUA,MIXTURE; 1994: 89-103.
Rec #: 10
Call Number: LITE EVAL CODED(MOM,CBL,MTM,DZ,MLN,CYP,CYF,TDC,MZB),OK(ALL CHEMS)
Notes: EcoReference No.: 20421
Chemical of Concern: MP,ES,CBF,CPY,CYP,EFX,TDC,MTM,MLN,FNV,CYF,FNT,CBL,24DXY,MCPA,BTC,FZFB,TBC,ODZ,MZB,MOM

23. Tetreault, G. E. Metabolism of Carbaryl, Chlorpyrifos, DDT, and Parathion in the European Corn Borer: Effects of Microsporidiosis on Toxicity and Detoxication. BCM,MOR,GRO,ACCTOP,MIXTURE; 1985: 86 p. (UMI# 8600331).
Rec #: 540
Call Number: LITE EVAL CODED(CPY,MOM,PMR,CBL),TARGET(DZ,CBF),NO MIXTURE(PPB)
Notes: EcoReference No.: 87626
Chemical of Concern: PPB,CBL,CBF,CPY,DDT,DZ,FNF,MOM,PRN,PMR,TBO

24. Thomas, J. D.; Mink, J. S.; Wier, A. T.; Boethel, D. J., and Leonard, B. R. Control of Soybean Looper on North Louisiana Soybean, 1991. POPENV,MIXTURE; 1992; 17, 274-275 (114F).
Rec #: 550
Call Number: LITE EVAL CODED(TDC,PMR)
Notes: EcoReference No.: 92331
Chemical of Concern: TDC,PMR

25. Vaughn, T. T. and Hoy, C. W. Control of Lepidoptera on Late Season Cabbage, 1992. POPENV,MIXTURE; 1993; 18, 113-114 (30E).
Rec #: 580
Call Number: LITE EVAL CODED(TDC,PMR)
Notes: EcoReference No.: 92326
Chemical of Concern: TDC,PMR

26. Yu, S. J. Age Variation in Insecticide Susceptibility and Detoxification Capacity of Fall Armyworm (Lepidoptera: Noctuidae) Larvae. MOR,BCMTOP,INJECT,MIXTURE; 1983; 76, (2): 219-222.
Rec #: 610
Call Number: LITE EVAL CODED(PMR,MOM),TARGET(DZ),NO MIXTURE(PPB)
Notes: EcoReference No.: 112750
Chemical of Concern: AND,PPB,DZ,PMR,MOM

27. Yu, S. J. and Nguyen, S. N. Insecticide Susceptibility and Detoxication Enzyme Activities in Permethrin-Selected Diamondback Moths. MOR,BCM,ACCENV,TOP,MIXTURE; 1996; 56, (1): 69-77.
Rec #: 620
Call Number: LITE EVAL CODED(ES,CPY,CBF,TPMR,MOM,TDC),NO IN VITRO(PRT),TARGET(BFT,CYP,FNV,EFV,FVL,TLM,MP,MTM,DZ,IMC)
Notes: EcoReference No.: 103261
Chemical of Concern: AND,HPT,PRT,ABM,FNV,TDC,CBF,MOM,CYP,TLM,FVL,BFT,TPMR,EFV,MTM,IMC,MP,ES,CPY,DZ

1. Allen, R. L. and Snipes, C. E. Interactions of Foliar Insecticides Applied with Pyrithiobac. PHY,GRO,POPENV,MIXTURE; 1995; 9, (3): 512-517.
   Rec #: 30
   Call Number: LITE EVAL CODED(EFV,TDC),OK(MLN,PTB),NO MIXTURE(ACP,AZ,BFT,CPY,DCTP,MOM,OML)
   Notes: EcoReference No.: 64055
   Chemical of Concern: ACP,PTB,AZ,BFT,CPY,DCTP,EFV,MLN,MOM,OML,TDC

2. Aranda, G. and Riant, O. SYNTHESIS OF METHOMYL DERIVATIVES AS NEW PHOTOSENSITIVE MOLECULAR PROBES. 1990; 20 , (5): 733-750.
   Rec #: 1371
   Keywords: NO TOX DATA
   Notes: Chemical of Concern: MOM
   Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM CORN INSECTICIDE MITOCHONDRIAL MEMBRANE
   KEYWORDS: Cytology and Cytochemistry-Plant
   KEYWORDS: Biochemical Methods-General
   KEYWORDS: Biochemical Studies-General
   KEYWORDS: Biophysics-Molecular Properties and Macromolecules
   KEYWORDS: Biophysics-Membrane Phenomena
   KEYWORDS: External Effects-Light and Darkness
   KEYWORDS: Toxicology-General
   KEYWORDS: Plant Physiology
   KEYWORDS: Phytopathology-Nonparasitic Diseases
   KEYWORDS: Pest Control
   KEYWORDS: Economic Entomology-Chemical and Physical Control
   KEYWORDS: GramineaeCOPIED TO REJECT FILE

3. Archibald, S. O. and Winter, C. K. PESTICIDES IN OUR FOOD ASSESSING THE RISKS. 1990; London, England, Uk. Illus. Maps. Isbn 0-442-00421-4.; 0 , (0): 1-50.
   Rec #: 18470
   Keywords: HUMAN HEALTH
   Notes: Chemical of Concern: SZ,PNB,MTL,MOM,CBF,ADC
   Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM HUMAN HERBICIDE CARCINOGENIC RISK USAGE REGULATIONS UNITED STATES DEPARTMENT OF AGRICULTURE FDA CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE CALIFORNIA USA
   KEYWORDS: General Biology-Institutions
   KEYWORDS: Behavioral Biology-Human Behavior
   KEYWORDS: Biochemical Studies-General
   KEYWORDS: Nutrition-General Studies
   KEYWORDS: Toxicology-Foods
   KEYWORDS: Toxicology-Environmental and Industrial Toxicology
   KEYWORDS: Neoplasms and Neoplastic Agents-Carcinogens and Carcinogenesis
   KEYWORDS: Public Health-Public Health Administration and Statistics
   KEYWORDS: Public Health: Environmental Health-Air
   KEYWORDS: Public Health: Disease Vectors-Inanimate
   KEYWORDS: Pest Control
   KEYWORDS: HominidaeCOPIED TO REJECT FILE

4. Atallah, M. A.; Abdelnaby, A. A., and Karaman, G. E. Laboratory Assessment of Relative Toxicity of Some Organic Insecticides to the Honey Bee. MORENV; 1979; 11, 149-154.

Rec #: 50
Call Number: LITE EVAL CODED(CPY),NO MIXTURE(DFZ,MTM,MOM),OK(PFF,FNV)
Notes: EcoReference No.: 110898
Chemical of Concern: MOM,PFF,FNV,CPY,DFZ,MTM

5. ---. Laboratory Assessment of Relative Toxicity of Some Organic Insecticides to the Honey Bee. MORENV; 1979; 11, 149-154.
Rec #: 50
Call Number: LITE EVAL CODED(CPY),NO MIXTURE(DFZ,MTM,MOM),OK(PFF,FNV)
Notes: EcoReference No.: 110898
Chemical of Concern: MOM,PFF,FNV,CPY,DFZ,MTM

6. Barden, J. A. and Marini, R. P. Incidence of Diseases on Fruit of Nine Apple Genotypes as Influenced by Six Fungicide Treatments. 1998; 52, (3): 128-136.
Rec #: 470
Keywords: MIXTURE/ NO CONC
Call Number: NO MIXTURE,CONC
Notes: Chemical of Concern: MOM,AZ,Captan,BMY,Ziram,MZB,MYC,DOD

7. Bartels, D. W.; Bolin, P. C., and Hutchison, W. D. Microbial and Insecticidal Control of Lepidopteran Pests in Minnesota Cabbage, 1995. POPENV,MIXTURE; 1996; 21, 89-90 (8E).
Rec #: 80
Call Number: LITE EVAL CODED(PMR),TARGET(TDC,CYP,LCYT,CFP)
Notes: EcoReference No.: 92374
Chemical of Concern: CFP,CYP,PMR,TDC,LCYT

8. Beckham, C. M. Influence of Systemic Insecticides on Thrips Control and Yield of Cotton. POPENV; 1970; 63, (3): 936-938.
Rec #: 120
Call Number: EFFICACY(DS,MOM,ADC,PRT),MIXTURE(CLNB),TARGET(CBL)
Notes: EcoReference No.: 114820
Chemical of Concern: PRT,ADC,CLNB,DS,MOM,CBL,TZL

9. Beyer, W. N. EVALUATING SOIL CONTAMINATION. 1990; 90 , (2): I-Viii, 1-25.
Rec #: 1401
Keywords: MIXTURE
Notes: Chemical of Concern: MOM,CBF,ADC,PYZ,DMB
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM EARTHWORMS SEWAGE SLUDGE SEDIMENTS WILDLIFE FOOD CHAINS
KEYWORDS: Ecology
KEYWORDS: Ecology
KEYWORDS: Ecology
KEYWORDS: Ecology
KEYWORDS: Biochemical Studies-General
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Soil Science-Physics and Chemistry (1970-)
KEYWORDS: Invertebrata
KEYWORDS: Oligochaeta
KEYWORDS: Vertebrata-UnspecifiedCOPIED TO REJECT FILE

10. Bond Jason A. and Walker Timothy W. Control of Volunteer Glyphosate-Resistant Soybean in Rice. 2009.
Rec #: 190
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: Descriptors: Glycine max

Descriptors: Oryza sativa
Abstract: Two field studies were conducted in 2007 and 2008 to evaluate at-planting burndown and POST herbicide applications targeting volunteer glyphosate-resistant (GR) soybean in rice. In the burndown study, paraquat, glufosinate, and a thifensulfuron plus tribenuron mixture were applied immediately after rice seeding. Paraquat controlled volunteer GR soybean at least 95% at all evaluations both years. Control with glufosinate was greater in 2007 than 2008 due to rainfall that occurred following application the second year. The thifensulfuron plus tribenuron mixture provided similar control in both years, but control never exceeded 71%. Additionally, a study was conducted evaluating POST-applied rice herbicides including propanil (4,480 and 2,240 g ai/ha), triclopyr (420 and 210 g ai/ha), bispyribac-sodium (38 and 19 g ai/ha), penoxsulam (40 and 20 g ai/ha), and halosulfuron (70 and 35 g ai/ha). Control across all POST herbicides and application rates was equivalent (< 95%) 28 and 56 d after application except for propanil, which controlled volunteer GR soybean less than other treatments. Volunteer GR soybean can be effectively managed in a rice production system with at-planting burndown or POST herbicide applications in rice. Nomenclature: Bispyribac-sodium; glufosinate; halosulfuron; paraquat; penoxsulam; propanil; thifensulfuron; tribenuron; triclopyr; rice, Oryza sativa L.; soybean, Glycine max (L.) Merr.
Publication Type: Journal
Publication Type: Article
27 refs.
Country of Publication: United States
Subfile: Plant Science; CABS
English
DOI: 10.1614/WT-08-156.1
Classification: CABSCLASS
Classification: 92.10.4.8, PLANT SCIENCE
Classification: CROP SCIENCE
Classification: Crop Protection
Classification: Plant resistance English

11. Braun, C. J.; Siedow, J. N., and Levings, C. S Iii. Fungal toxins bind to the URF13 protein in maize mitochondria and Escherichia coli. 1990; 2 , (2): 153-162.
Rec #: 1187
Keywords: NO TOX DATA
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. Expression of the maize mitochondrial T-urf13 gene results in a sensitivity to a family of fungal pathotoxins and to methomyl, a structurally unrelated systemic insecticide. Similar effects of pathotoxins and methomyl are observed when T-urf13 is cloned and expressed in Escherichia coli. An interaction between these compounds and the membrane-bound URF13 protein permeabilizes the inner mitochondrial and bacterial plasma membranes. To understand the toxin-URF13 effects, we have investigated whether toxin specifically binds to the URF13 protein. Our studies indicate that toxin binds to the URF13 protein in maize mitochondria and in E. coli expressing URF13. Binding analysis in E. coli reveals cooperative toxin binding. A low level of specific toxin binding is also demonstrated in cms-T and cms-T-restored mitochondria; however, binding does not appear to be cooperative in maize mitochondria. Competition and displacement studies of E. coli demonstrate that toxin binding is
KEYWORDS: Cytology and Cytochemistry-Plant
KEYWORDS: Genetics and Cytogenetics-Plant
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biochemical Studies-Proteins
KEYWORDS: Biophysics-Membrane Phenomena
KEYWORDS: Metabolism-Proteins
KEYWORDS: Toxicology-General
KEYWORDS: Genetics of Bacteria and Viruses
KEYWORDS: Plant Physiology
KEYWORDS: Phytopathology-Diseases Caused by Fungi
KEYWORDS: Phytopathology-Parasitism and Resistance

KEYWORDS: Pest Control
KEYWORDS: Enterobacteriaceae (1979-)
KEYWORDS: Fungi-Unspecified
KEYWORDS: GramineaeCOPIED TO REJECT FILE

12. Brown, M. A. ; Kim, I. S.; Sasinos, F. I., and Stephens, R. D. ANALYSIS OF TARGET AND NONTARGET POLLUTANTS IN AQUEOUS AND HAZARDOUS WASTE SAMPLES BY LIQUID CHROMATOGRAPHY-PARTICLE BEAM MASS SPECTROMETRY. 1990; 197th National Meeting, Dallas, Texas, Usa, April 9-14, 1989. Xii+298p. American Chemical Society: Washington, D.c., Usa. Illus. Isbn 0-8412-1740-8.; 0 , (0): 198-214.
Rec #: 1479
Keywords: METHODS
Notes: Chemical of Concern: MOM,ADC,CBF
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM
KEYWORDS: General Biology-Symposia
KEYWORDS: Biochemical Methods-General
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biophysics-General Biophysical Techniques
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-AirCOPIED TO REJECT FILE

13. Brown, M. W. and Lightner, G. W. Recommendations on Minimum Experimental Plot Size and Succession of Aphidophaga in West Virginia, USA, Apple Orchards. 1997; 42, (1/2): 257-267.
Rec #: 480
Keywords: MIXTURE/ NO CONC
Call Number: NO MIXTURE,CONC,TARGET(MOM)
Notes: Chemical of Concern: MOM,AZ

14. Burris, G.; Cook, D.; Leonard, B. R.; Graves, J. B., and Pankey, J. Control of Foliage Feeding Pests in Cotton, 1995. POPSOIL,ENV,MIXTURE; 1996; 21, 243-244 (68F).
Rec #: 250
Call Number: EFFICACY(CFP,TDC,DFZ,TUZ)
Notes: EcoReference No.: 92375
Chemical of Concern: CFP,TDC,DFZ,TUZ

15. ---. Observations on DPL Nucotn 33 and DPL Nucotn 35, 1995. 1996; 21, 421-422.
Rec #: 80
Keywords: MIXTURE
Call Number: NO MIXTURE(ACP,MP,TDC,ADC,DS,TUZ,PFF,IMC,DCTP,AZ,MOM,CYF),NO COC(DKG)
Notes: Chemical of Concern: ACP,MP,TDC,ADC,DS,LCYT,TUZ,PFF,IMC,DCTP,AZ,MOM,CYF

16. ---. Observations on Dpl Nucotn 33 and Dpl Nucotn 35, 1995. 1996; 21, 421-422.
Rec #: 2320
Keywords: MIXTURE
Notes: Chemical of Concern: ACP,MP,TDC,ADC,DS,LCYT,TUZ,PFF,IMC,DCTP,AZ,MOM,CYF
Abstract: ISBN 0-938522-55-8//Was EcoRef # 82918//

17. Campanhola, C. and Plapp, F. W. Jr. Pyrethroid Resistance in the Tobacco Budworm (Lepidoptera: Noctuidae) Insecticide Bioassays and Field Monitoring. MOR,POPENV,MIXTURE; 1989; 82, (1): 22-28.
Rec #: 270
Call Number: TARGET(CYP,FNV,ACP,MP,TDC,PFF)
Notes: EcoReference No.: 91612
Chemical of Concern: CYP,FNV,PFF,ACP,MP,TDC

18. Carbonell, E.; Puig, M.; Xamena, N.; Creus, A., and Marcos, R. Sister chromatid exchange in lymphocytes of agricultural workers exposed to pesticides. 1990; 5 , (4): 403-406.
Rec #: 1386
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. Sister chromatid exchange (SCE) was studied in the lymphocytes of 27 agricultural workers occupationally exposed to several pesticides and 28 matched controls from el Maresme, an agricultural area near Barcelona. Comparison between both groups with the t-test did not reveal significant differences. These negative findings suggest that, possibly, the exposure level is too low to increase SCE in human lymphocytes in vivo. Our results indicate that smokers, both the workers and the controls, had a higher SCE frequency than non-smokers, in agreement with previous data reported by different authors.
KEYWORDS: Cytology and Cytochemistry-Human
KEYWORDS: Genetics and Cytogenetics-Human
KEYWORDS: Social Biology
KEYWORDS: Biochemical Studies-General
KEYWORDS: Blood
KEYWORDS: Toxicology-General
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-Occupational Health
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Pest Control
KEYWORDS: HominidaeCOPIED TO REJECT FILE

19. Chang, Chiung Fen; Chang, Ching Yuan; Hsu, Kuo En; Lee, Shu Chi, and Höll, Wolfgang. Adsorptive removal of the pesticide methomyl using hypercrosslinked polymers. 2008 Jun 30-; 155, (1-2): 295-304.
Rec #: 130
Keywords: CHEM METHODS
Notes: Chemical of Concern: MOM
Abstract: Keywords: Adsorption
Keywords: Hypercrosslinked polymer
Keywords: Methomyl
Keywords: Equilibrium
Keywords: Kinetics
Abstract: The hypercrosslinked polymers Macronet MN-150 and MN-500 (denoted as MN-150 and MN-500) were investigated to remove the pesticide methomyl from aqueous solutions via adsorption. Furthermore, the effect of humid acid (used as background organic compound) on the adsorption capacity of methomyl for MN-150 was examined. The equilibria and kinetics of the adsorption of methomyl onto MN-150 and MN-500 can be well correlated with Langmuir and Freundlich isotherms, and conventional kinetic models (e.g., surface and pore diffusion models), respectively. The polymer MN-150 possesses a high potential to be applied as adsorbent for the removal of methomyl from aqueous solution when compared with MN-500. Furthermore, the competitive effect of humic acid on adsorption of methomyl on MN-150 can be ignored at low equilibrium concentrations. The transport of methomyl from solution into the polymer adsorbents is controlled by both, external and internal mass transfer mechanisms with film-surface diffusion model offering the better description. The surface mobility and flux of surface diffusion increase as the initial concentration increases 0304-3894

20. Chapman, P. A. The Resistance to Eighteen Toxicants of a Strain of Musca domestica L. Collected from a Farm in England. MORMIXTURE,TOP; 1985; 16, (3): 271-276.
Rec #: 140
Call Number: NO CONTROL(DDT,HCCH,DZ,MOM,DMT,DM,PYN,FNT,TVP,PIRM,TCF,BDC,PMR,DDVP,PRM),NO MIXTURE(BRSM,RSM,PYNN,PPB)
Notes: EcoReference No.: 70785
Chemical of Concern: RSM,DDT,HCCH,DZ,MOM,DMT,PPB,DM,BRSM,PYN,FNT,TVP,PIRM,TCF,BDC,PMR,DDVP,

PRM

21. ---. The Resistance to Eighteen Toxicants of a Strain of Musca domestica L. Collected from a Farm in England. MORMIXTURE,TOP; 1985; 16, (3): 271-276.
Rec #: 140
Call Number: NO CONTROL(DDT,HCCH,DZ,MOM,DMT,DM,PYN,FNT,TVP,PIRM,TCF,BDC,PMR,DDVP,PRM) ,NO MIXTURE(BRSM,RSM,PYNN,PPB)
Notes: EcoReference No.: 70785
Chemical of Concern: RSM,DDT,HCCH,DZ,MOM,DMT,PPB,DM,BRSM,PYN,FNT,TVP,PIRM,TCF,BDC,PMR,DDVP, PRM

22. Chen, J. S. and Sun, C. N. Resistance of Diamondback Moth (Lepidoptera: Plutellidae) to a Combination of Fenvalerate and Piperonyl Butoxide. MORENV; 1986; 79, (1): 22-30.
Rec #: 150
Call Number: NO MIXTURE(TBF,PPB),NO CONTROL(FNV,CBL,MOM,MTM,PMR,CYP,PFF,DZ,ACP,CBF,DM)
Notes: EcoReference No.: 93271
Chemical of Concern: TBF,FNV,PPB,CBF,CBL,MOM,MTM,PMR,CYP,DM,ACP,DZ,MVP,PFF

23. ---. Resistance of Diamondback Moth (Lepidoptera: Plutellidae) to a Combination of Fenvalerate and Piperonyl Butoxide. MORENV; 1986; 79, (1): 22-30.
Rec #: 150
Call Number: NO MIXTURE(TBF,PPB),NO CONTROL(FNV,CBL,MOM,MTM,PMR,CYP,PFF,DZ,ACP,CBF,DM)
Notes: EcoReference No.: 93271
Chemical of Concern: TBF,FNV,PPB,CBF,CBL,MOM,MTM,PMR,CYP,DM,ACP,DZ,MVP,PFF

24. Chen, J. T.; Juo, C. G.; Yeh, C. F., and Her, G. R. PRODUCT-ION ASSISTED LIBRARY SEARCH OF THE ELECTRON IONIZATION MASS SPECTRUM OF A MIXTURE. 1996; 10 , (10): 1179-1182.
Rec #: 1146
Keywords: METHODS, NO SPECIES
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM RESEARCH ARTICLE METHODOLOGY MIXTURE ELECTRON IONIZATION MASS SPECTRUM ANALYSIS PRODUCT-ION ASSISTED LIBRARY SEARCHING CHLOROBENZILATE PESTICIDE ALACHLOR METHOMYL ATRAZINE PESTICIDE ANALYSIS CHEMISTRY ANALYTICAL METHOD
KEYWORDS: Biochemical Methods-General
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biophysics-General Biophysical Techniques
KEYWORDS: Pest ControlCOPIED TO REJECT FILE

25. Chu, C. C.; Henneberry, T. J., and Akey, D. H. Insecticide Control of Sweetpotato Whitefly on Broccoli and Lettuce, 1992. POPSOIL,ENV; 1994; 19, 57-59 (7E).
Rec #: 340
Call Number: EFFICACY(IMC,TDC),NO MIXTURE(ACP,FPP,MTM,BFT)
Notes: EcoReference No.: 89105
Chemical of Concern: BFT,MTM,FPP,IMC,ACP,TDC

26. Chung, T. C. and Sun, C. N. Malathion and MIPC Resistance in Nilaparvata lugens (Homoptera: Delphacidae). MOR,BCMENV,MIXTURE; 1983; 76, (1): 1-5.
Rec #: 160
Call Number: NO CONTROL(MLO,MOM,CBL,CBF,PPX,MLN,MP,PRN),NO MIXTURE(TBF,PPB)

Notes: EcoReference No.: 92902
Chemical of Concern: MLO,MOM,CBL,CBF,PPX,MLN,MP,TBF,PPB,PRN

27. ---. Malathion and MIPC Resistance in Nilaparvata lugens (Homoptera: Delphacidae). MOR,BCMENV,MIXTURE; 1983; 76, (1): 1-5.
Rec #: 160
Call Number: NO CONTROL(MLO,MOM,CBL,CBF,PPX,MLN,MP,PRN),NO MIXTURE(TBF,PPB)
Notes: EcoReference No.: 92902
Chemical of Concern: MLO,MOM,CBL,CBF,PPX,MLN,MP,TBF,PPB,PRN

28. Clemens, C. G.; Fitzpatrick, B. J.; Boyd, M. L.; Mascarenhas, R. N.; Boethel, D. J.; Cook, D., and Burris, G. Bean Leaf Beetle and Soybean Looper Control on Soybean, 1996. POPSOIL,ENV; 1997; 22, 310 (123F).
Rec #: 350
Call Number: LITE EVAL CODED(CPY),TARGET(TDC,CFP),NO MIXTURE(EMMB)
Notes: EcoReference No.: 91336
Chemical of Concern: SS,TDC,CFP,EMMB,CPY

29. Cripe, C. R. and Pritchard, P. H. AQUATIC TEST SYSTEMS FOR STUDYING THE FATE OF XENOBIOTIC. 1990; 13th Symposium, Atlanta, April 16-18, 1989. Vii+378p. Astm: Philadelphia, Pennsylvania, Usa. Maps. Isbn 0-8031-1460-5.; 0 , (0): 29-47.
Rec #: 7620
Keywords: FATE
Notes: Chemical of Concern: PNB,MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM MICROORGANISMS TOXICOLOGY MATHEMATICAL MODEL BIOTECHNOLOGY
KEYWORDS: General Biology-Symposia
KEYWORDS: Mathematical Biology and Statistical Methods
KEYWORDS: Ecology
KEYWORDS: Ecology
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biophysics-Bioengineering
KEYWORDS: Biophysics-Biocybernetics (1972-)
KEYWORDS: Metabolism-General Metabolism
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Microbiological Apparatus
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Food and Industrial Microbiology-Biodegradation and Biodeterioration
KEYWORDS: Microorganisms-UnspecifiedCOPIED TO REJECT FILE

30. Csizinszky, A. A. and Schuster, D. J. Yield Response of Staked, Fresh-Market Tomatoes to Reduced Use of Fertilizers and Insecticides. 1982; 107, 648-652.
Rec #: 140
Keywords: MIXTURE
Call Number: NO MIXTURE(MOM,OML,Maneb)
Notes: Chemical of Concern: MOM,OML,Maneb

31. ---. Yield Response of Staked, Fresh-Market Tomatoes to Reduced Use of Fertilizers and Insecticides. 1982; 107, 648-652.
Rec #: 3150
Keywords: MIXTURE
Notes: Chemical of Concern: MOM,OML,Maneb
Abstract: Was EcoRef # 25652//

32. De Godoy, J. R.; Crocomo, W. B.; Nakagawa, J., and Wilcken, C. F. Effect of Storage on Physiological Quality

of Seeds Treated with Systemic Insecticides [Efeito do Armazenamento Sobre a Qualidade Fisiologica de Sementes Tratadas com Insecticidas Sistemicos]. 1990; 18, (1): 81-93 (SPA) (ENG ABS).
Rec #: 220
Keywords: NON-ENGLISH
Call Number: NO FOREIGN(TDC,CBF,ACP)
Notes: Chemical of Concern: TDC,CBF,ACP

33. ---. Effect of Storage on Physiological Quality of Seeds Treated With Systemic Insecticides [Efeito Do Armazenamento Sobre a Qualidade Fisiologica De Sementes Tratadas Com Insecticidas Sistemicos]. 1990; 18, (1): 81-93 (SPA) (ENG ABS).
Rec #: 3400
Keywords: NON-ENGLISH
Notes: Chemical of Concern: TDC,CBF,ACP
Abstract: WAS ECOREF 92432//

34. De, K. O. K. A; Hiemstra, M., and Vreeker, C. P. OPTIMIZATION OF THE POSTCOLUMN HYDROLYSIS REACTION ON SOLID PHASES FOR THE ROUTINE HIGH-PERFORMANCE LIQUID CHROMATOGRAPHIC DETERMINATION OF N METHYLCARBAMATE PESTICIDES IN FOOD PRODUCTS. 1990; 507 , (0): 459-472.
Rec #: 1379
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: MOM,ADC,CBF
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM AGRONOMY
KEYWORDS: General Biology-Symposia
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biophysics-General Biophysical Techniques
KEYWORDS: Toxicology-Foods
KEYWORDS: Food and Industrial Microbiology-Food and Beverage Spoilage and Contamination
KEYWORDS: Agronomy-General
KEYWORDS: Pest Control
KEYWORDS: SpermatophytaCOPIED TO REJECT FILE

35. Di Corcia a; Crescenzi, C., and Lagana, A. Evaluation of a method based on liquid chromatography/electrospray/mass spectrometry for analyzing carbamate insecticides in fruits and vegetables. 1996; 44 , (7): 1930-1938.
Rec #: 1797
Keywords: METHODS
Notes: Chemical of Concern: MOM,ADC,CBF
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. The feasibility of using reversed-phase liquid chromatography/mass spectrometry (LC) with an electrospray (ES) interface for measuring traces of N-methylcarbamate insecticides in 10 different types of fruits and vegetables was evaluated. Twelve carbamates added to vegetable materials were extracted with methanol by the aid of a homogenizer. After filtration, an aliquot of the homogenizate equivalent to 5 g of the vegetable material was suitably diluted with water and passed through a 1-g Carbograph 1 extraction cartridge. Carbamates were eluted by passing through the cartridge 6 mL of a CH2Cl2/CH3OH (80:20 v/v) mixture. After eluate concentration down to 100 muL, 5 muL of the final extract was injected into the LC column. Recovery of the analytes was better than 80%, irrespective of the type of vegetable matrix to which the analytes were added. Replacement of CH3OH with CH3CN as organic modifier resulted in a significant decrease of the ion signal for carbamates. The sa
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biophysics-General Biophysical Techniques
KEYWORDS: Biophysics-Molecular Properties and Macromolecules
KEYWORDS: Food Technology-Fruits
KEYWORDS: Food Technology-Evaluations of Physical and Chemical Properties (1970-)
KEYWORDS: Food Technology-Preparation

KEYWORDS: Toxicology-Foods
KEYWORDS: Agronomy-Sugar Crops
KEYWORDS: Horticulture-Temperate Zone Fruits and Nuts
KEYWORDS: Horticulture-Small Fruits
KEYWORDS: Horticulture-Vegetables
KEYWORDS: Pest Control
KEYWORDS: Chenopodiaceae
KEYWORDS: Compositae
KEYWORDS: Rosaceae
KEYWORDS: Rutaceae
KEYWORDS: Solanaceae
KEYWORDS: VitaceaeCOPIED TO REJECT FILE

36. Dittrich, V.; Uk, S., and Ernst, G. H. Chemical Control and Insecticide Resistance of Whiteflies. 1990: 263-286.
Rec #: 3560
Keywords: REFS CHECKED/ REVIEW
Notes: Chemical of Concern: RSM,MOM,CBF,ADC,DMT,CYP,RTN,DBAC,EFV
Abstract: Searched FY04 ALP 11/03 -COMPLETED 10/07//

37. ---. Chemical Control and Insecticide Resistance of Whiteflies. 1990: 263-286.
Rec #: 580
Keywords: REFS CHECKED/ REVIEW
Call Number: NO REVIEW,TARGET(MOM)
Notes: EcoReference No.: 70087
Chemical of Concern: RSM,MOM,CBF,ADC,DMT,CYP,RTN,DBAC

38. Dowd, P. F. and Sparks, T. C. Inhibition of trans-Permethrin Hydrolysis in Pseudoplusia includens (Walker) and Use of Inhibitors as Pyrethroid Synergists. MORTOP,MIXTURE; 1987; 27, (2): 237-245.
Rec #: 230
Call Number: NO CONTROL(PFF,FPP,SPS,MPO,PRN,DEF,DEM,ACP,PTPMR,TBC,EDTA,HgCl2,CuCl,Hg,Cu,CdCl,MnCl2,ZnCl2,PBN,CoCl,MgCl2,CN,
Notes: EcoReference No.: 99890
Chemical of Concern: PFF,FPP,PSM,SPS,MPO,PRN,MP,DEF,DEM,ACP,CBL,CBF,MOM,PTPMR,TBC,EDTA,HgCl2,CuCl,Hg,Cu,CdCl,MnCl2,ZnCl2,PBN,CoCl,MgCl2,SFL,CN,CYP,PPB,SMT,PCPMR,PMR,TLM,FNV,FVL,ATN,RSM,EFV

39. ---. Inhibition of trans-Permethrin Hydrolysis in Pseudoplusia includens (Walker) and Use of Inhibitors as Pyrethroid Synergists. MORTOP,MIXTURE; 1987; 27, (2): 237-245.
Rec #: 230
Call Number: NO CONTROL(PFF,FPP,SPS,MPO,PRN,DEF,DEM,ACP,PTPMR,TBC,EDTA,HgCl2,CuCl,Hg,Cu,CdCl,MnCl2,ZnCl2,PBN,CoCl,MgCl2,CN,
Notes: EcoReference No.: 99890
Chemical of Concern: PFF,FPP,PSM,SPS,MPO,PRN,MP,DEF,DEM,ACP,CBL,CBF,MOM,PTPMR,TBC,EDTA,HgCl2,CuCl,Hg,Cu,CdCl,MnCl2,ZnCl2,PBN,CoCl,MgCl2,SFL,CN,CYP,PPB,SMT,PCPMR,PMR,TLM,FNV,FVL,ATN,RSM,EFV

40. Durant, J. A. and Moore, R. F. Ovo-larvicidal Activity of Selected Insecticide Treatments Against Heliothis spp. on Cotton. MORSOIL,ENV,MIXTURE; 1989; 6, (4): 227-232.
Rec #: 500
Call Number: OK TARGET(MOM),TARGET(TDC,CYF)
Notes: EcoReference No.: 73703

Chemical of Concern: MOM,CYF,TLM,TDC,PFF,AMZ,CYP,FYC,LCYT

41. Ekstrom, G. and Akerblom, M. PESTICIDE MANAGEMENT IN FOOD AND WATER SAFETY INTERNATIONAL CONTRIBUTIONS AND NATIONAL APPROACHES. 1990; Berlin, West Germany. Illus. Isbn 0-387-97207-2; Isbn 3-540-97207-2.; 0 , (0): 23-56.
Rec #: 17580
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: SZ,MTL,MOM,CBF,ADC,PYZ
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM REVIEW INSECTICIDES HERBICIDES FUNGICIDES HUMAN CANCER RISK
KEYWORDS: General Biology-Institutions
KEYWORDS: Biochemical Studies-General
KEYWORDS: Food Technology-General
KEYWORDS: Toxicology-Foods
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Neoplasms and Neoplastic Agents-Carcinogens and Carcinogenesis
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Agronomy-Weed Control
KEYWORDS: Phytopathology-Disease Control
KEYWORDS: Pest Control
KEYWORDS: Economic Entomology-Chemical and Physical Control
KEYWORDS: HominidaeCOPIED TO REJECT FILE

42. El-Hamaky, M. A.; Refaei, A. F.; Hegazy, M. A., and Hussein, N. M. Knock-Down and Residual Activity of Certain Insecticides Bacillus thuringiensis and Their Binary Mixtures Against the Cotton Leafworm Spodoptera littoralis (Boisd.) In Cotton Fields. MORORAL; 1990; 55, (2, Pt. B): 593-599.
Rec #: 280
Call Number: NO CONTROL,ENDPOINT(TDC,CYF)
Notes: EcoReference No.: 92312
Chemical of Concern: CYF,TDC

43. ---. Knock-Down and Residual Activity of Certain Insecticides Bacillus thuringiensis and Their Binary Mixtures Against the Cotton Leafworm Spodoptera littoralis (Boisd.) In Cotton Fields. MORORAL; 1990; 55, (2, Pt. B): 593-599.
Rec #: 280
Call Number: NO CONTROL,ENDPOINT(TDC,CYF)
Notes: EcoReference No.: 92312
Chemical of Concern: CYF,TDC

44. El-Sayed, E. I.; Mohanna, A. H., and Abdel-Sattar, M. M. Interaction of Insecticide Mixtures on Parental and Resistant Strains of the Egyptian Cotton Leafworm, Spodoptera Littoralis (Boisd.). 1983; 13, 9-15.
Rec #: 4110
Keywords: MIXTURE
Notes: Chemical of Concern: MOM,PHSL,CYP,EN

45. ---. Interaction of Insecticide Mixtures on Parental and Resistant Strains of the Egyptian Cotton Leafworm, Spodoptera littoralis (Boisd.). 1983; 13, 9-15.
Rec #: 490
Keywords: MIXTURE
Call Number: NO MIXTURE,TARGET(MOM)
Notes: EcoReference No.: 73689
Chemical of Concern: MOM,PHSL,CYP,EN

46. El-Wakil, H. B. and Attia, A. M. Effect of Selected Insecticides on Terrestrial Snails Eobania vermiculata (Muller) and Theba pisana (Muller) with Respect to Some Morphological Changes in Egypt. GRO,MORENV,MIXTURE; 1999; 34, (1): 47-60.

Rec #: 440
Call Number: LITE EVAL CODED(DFZ),TARGET(MOM)
Notes: EcoReference No.: 72657
Chemical of Concern: MOM,DFZ

47. Elzen, G. W. Control of Tobacco Budworm and Bollworm, 1989. POPENV,MIXTURE; 1991; 16, 182 (70F).
Rec #: 460
Call Number: TARGET(CYF,TDC,CYP,TLM,PFF,BFT),NO MIXTURE(OXD,MTM,AMZ)
Notes: EcoReference No.: 89145
Chemical of Concern: CYF,TDC,SPS,OXD,MTM,TLM,CYP,BFT,AMZ,PFF

48. ---. Evaluation of Beet Armyworm (Lepidoptera: Noctuidae) Tolerance to Insecticides and Response to IGR's. MORENV,MIXTURE; 1996; 21, (2): 127-133.
Rec #: 310
Call Number: NO ENDPOINT(CPY,DFZ,AMZ,TLM,MOM,ACP,PFF,TDC,FYC,BFT)
Notes: EcoReference No.: 68418
Chemical of Concern: AMZ,TLM,MOM,ACP,BFT,CPY,SPS,PFF,TDC,FYC,DFZ

49. ---. Evaluation of Beet Armyworm (Lepidoptera: Noctuidae) Tolerance to Insecticides and Response to IGR's. MORENV,MIXTURE; 1996; 21, (2): 127-133.
Rec #: 310
Call Number: NO ENDPOINT(CPY,DFZ,AMZ,TLM,MOM,ACP,PFF,TDC,FYC,BFT)
Notes: EcoReference No.: 68418
Chemical of Concern: AMZ,TLM,MOM,ACP,BFT,CPY,SPS,PFF,TDC,FYC,DFZ

50. Elzen, G. W.; O'brien, P. J., and Powell, J. E. Toxic and Behavioral Effects of Selected Insecticides on the Heliothis Parasitoid Microplitis croceipes. BEH,MORSOIL,ENV,MIXTURE; 1989; 34, (1): 87-94.
Rec #: 1290
Call Number: OK,TARGET(TDC),TARGET(MOM)
Notes: EcoReference No.: 74133
Chemical of Concern: MOM,FNV,TDC

51. EPA/OTS. Initial Submission: Letter From U.s.epa Reporting Results of Acute Inhalation Study (Lc50) in Rats With a Methomyl R&D Proprietary Mixture, Dated 08/3/1999 (Sanitized). 1999.
Rec #: 4340
Keywords: INHALE
Notes: Chemical of Concern: MOM

52. ---. Initial Submission: Letter from U.S.EPA Reporting Results of Acute Inhalation Study (LC50) in Rats with a Methomyl R&D Proprietary Mixture, Dated 08/3/1999 (Sanitized). 1999.
Rec #: 140
Keywords: INHALE/ MIXTURE
Call Number: NO CONTROL(MOM)
Notes: Chemical of Concern: MOM

53. Erdmann, F.; Brose, C., and Schuetz, H. A TLC screening program for 170 commonly used pesticide using the corrected Rf value (Rcf value). 1990; 104 , (1): 25-32.
Rec #: 18970
Keywords: NO SPECIES
Notes: Chemical of Concern:
SZ,PNB,MOM,ADC,CBF,PHMD,DMT,CPC,WFN,24DXY,MCPB,DOD,CYP
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. This article reports TLC data (corrected Rf values; Rfc values) of 170 commonly used pesticides which are regularly encountered in toxicological analysis. Silica gel was used as the stationary phase and three binary systems were chosen as solvents.

KEYWORDS: General Biology-Forensic Science
KEYWORDS: Biophysics-General Biophysical Techniques
KEYWORDS: Toxicology-General
KEYWORDS: Pest ControlCOPIED TO REJECT FILE

54. Farre, M.; Fernandez, J.; Paez, M.; Granada, L.; Barba, L.; Gutierrez, H. M.; Pulgarin, C., and Barcelo, D. Analysis and toxicity of methomyl and ametryn after biodegradation. 2002Apr; 373, (8): 704-9.
Rec #: 2266
Keywords: NO SPECIES
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: The controlled biodegradation of ametryn and methomyl has been performed, in accordance with the OECD Zahn-Wellens/EMPA procedure, by use of an enriched mixture of activated sludge collected from three domestic waste-water-treatment plants (WWTP). During the process concentrations of ametryn and methomyl in the water samples were isolated by solid-phase extraction (SPE); recovery rates were 98.9 and 93.2 for methomyl and ametryn, respectively. Liquid chromatography-mass spectrometry (LC-MS) was used to determine final pesticide concentrations and for metabolite identification.The efficiency of aerobic biodegradation of ametryn and methomyl was evaluated by measuring both the decrease in the concentration of the pesticides and global properties such as the chemical oxygen demand (COD). The acute toxicity of ametryn and methomyl was evaluated by use of the ToxAlert100 biological test, which is based on inhibition of the bioluminescence of Vibrio fischeri. There was significant correlation between results from primary and ultimate biodegradation and those from determination of toxicity. Pesticide concentrations were always reduced to below the limit of detection in less than 17 days. High COD removal (90-96%) was achieved in 28 and 18 days for methomyl and ametryn, respectively.COPIED TO REJECT FILE

55. Fediere, G.; El-Sheikh, M. A. K.; Semeada, A. M.; El-Hefny, A.; Masri, M., and El-Sherif, S. Production and Field Evaluation of a Granulosis Virus for Control of Sesamia Cretica Led. (Lep., Noctuidae) in Maize Fields in Egypt. 1997; 121, (5): 293-296.
Rec #: 4450
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: Journal of Applied Entomology (Zeitschrift fuer Angewandte Entomologie)//ISSN: 0044-2240//

56. ---. Production and Field Evaluation of a Granulosis Virus for Control of Sesamia cretica Led. (Lep., Noctuidae) in Maize Fields in Egypt. POP,GROENV; 1997; 121, (5): 293-296.
Rec #: 420
Keywords: MIXTURE
Call Number: NO MIXTURE
Notes: EcoReference No.: 74142
Chemical of Concern: MOM

57. Fife, J. H.; Leonard, B. R.; Torrey, K. D.; Graves, J. B., and Holloway, J. W. Efficacy of Pirate 3SC Tank Mixtures Against Bollworm/Tobacco Budworm (BW/TBW) in Cotton, 1996. POPSOIL,ENV,MIXTURE; 1997; 22, 253-254 (60F).
Rec #: 330
Call Number: NO MIXTURE(TDC)
Notes: EcoReference No.: 91331
Chemical of Concern: LCYT,TDC

58. ---. Efficacy of Pirate 3SC Tank Mixtures Against Bollworm/Tobacco Budworm (BW/TBW) in Cotton, 1996. POPSOIL,ENV,MIXTURE; 1997; 22, 253-254 (60F).
Rec #: 330
Call Number: NO MIXTURE(TDC)
Notes: EcoReference No.: 91331

Chemical of Concern: LCYT,TDC

59. Forsythe, H. Y. Jr. Insect and Mite Control, 1990. POPENV; 1991; 16, 4 (6A).
Rec #: 340
Call Number: NO MIXTURE(TDC),TARGET(PSM,CPY,AZ)
Notes: EcoReference No.: 92311
Chemical of Concern: CPY,TDC,AZ,PSM

60. ---. Insect and Mite Control, 1990. POPENV; 1991; 16, 4 (6A).
Rec #: 340
Call Number: NO MIXTURE(TDC),TARGET(PSM,CPY,AZ)
Notes: EcoReference No.: 92311
Chemical of Concern: CPY,TDC,AZ,PSM

61. Frank, R.; Braun, H. E.; Clegg, B. S.; Ripley, B. D., and Johnson, R. SURVEY OF FARM WELLS FOR PESTICIDES ONTARIO CANADA 1986 AND 1987. 1990; 44 , (3): 410-419.
Rec #: 17710
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: SZ,MTL,MOM,ADC,CBF,DMB
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM WATER POLLUTION CONTAMINATION ENVIRONMENTAL SURVEILLANCE
KEYWORDS: Ecology
KEYWORDS: Biochemical Studies-General
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Pest ControlCOPIED TO REJECT FILE

62. 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,MORINJECT,TOP; 1980; 14, (1): 81-85.
Rec #: 370
Call Number: LITE EVAL CODED(PFF),OK(DEF,SPS),NO MIXTURE(FNV,MLN,MTPMR,PCPMR),NO CONTROL(AZ,MP,CBL,MOM)
Notes: EcoReference No.: 89315
Chemical of Concern: DEF,PFF,SPS,CYP,FNV,MLN,AZ,MP,ACP,CBL,MOM,MTPMR,PCPMR

63. ---. Pesticide Interactions: Effects of Organophosphorus Pesticides on the Metabolism, Toxicity, and Persistence of Selected Pyrethroid Insecticides. BCM,MORINJECT,TOP; 1980; 14, (1): 81-85.
Rec #: 370
Call Number: LITE EVAL CODED(PFF),OK(DEF,SPS),NO MIXTURE(FNV,MLN,MTPMR,PCPMR),NO CONTROL(AZ,MP,CBL,MOM)
Notes: EcoReference No.: 89315
Chemical of Concern: DEF,PFF,SPS,CYP,FNV,MLN,AZ,MP,ACP,CBL,MOM,MTPMR,PCPMR

64. Ghidiu, G. M. Foliar Sprays to Control Insect Pests on Late-Planted Sweet Corn, 1985. POPENV,MIXTURE; 1986; 11, 130-131 (173).
Rec #: 550
Call Number: LITE EVAL CODED(PMR),TARGET(EFV,MOM,FVL,LCYT,CYF,TDC,CBL,MP),NO MIXTURE(PPB)
Notes: EcoReference No.: 87895
Chemical of Concern: PPB,EFV,EPRN,MOM,FVL,LCYT,PMR,CYF,FNF,TDC,CBL,MP

65. Glab, N.; Wise, R. P.; Pring, D. R.; Jacq, C., and Slonimski, P. Expression in Saccharomyces cerevisiae of a gene associated with cytoplasmic male sterility from maize: Respiratory dysfunction and uncoupling of yeast mitochondria. 1990; 223, (1): 24-32.
Rec #: 835

Keywords: NO TOX DATA
Notes: Chemical of Concern: MOM
Abstract: Abstract: We asked whether the mitochondrial T-urf13 gene, associated with the male sterility phenotype of T cytoplasm in maize, can be expressed in Saccharomyces cerevisiae and whether this expression can mimic the effects observed in maize. We introduced the universal code equivalent of the T-urf13 gene into the S. cerevisiae nucleus by transformation and directed its translation product into mitochondria by means of a fusion with the targeting presequence from Neurospora crassa ATPase subunit 9. Expression of the universal code equivalent of the T-urf13 gene in the yeast nucleus does indeed mimic its effects in maize: respiratory growth of yeast is inhibited, respiration-deficient cytoplasmic mutants accumulate and NADH oxidation of isolated mitochondria is uncoupled. All these effects are observed only if the mitochondrial targeting peptide and methomyl or HmT toxin are present.COPIED TO REJECT FILE

66. Grafton-Cardwell, E. E.; Morse, J. G., and Gjerde, A. Effect of Insecticide Treatments to Reduce Infestation by Citrus Thrips (Thysanoptera: Thripidae) on Growth of Nonbearing Citrus.
GRO,REP,POPSOIL,ENV; 1998; 91, (1): 235-242.
Rec #: 430
Call Number: NO MIXTURE(ALL CHEMS),TARGET(CBL)
Notes: EcoReference No.: 82778
Chemical of Concern: MLSS,MOM,Naled,MLK,FVL,DMT,SBDA,CBL,FO,CPY,ACP,FTT

67. Grattidge, R. Growing Capsicums and Chillies in Queensland. 1990: 1-27.
Rec #: 330
Keywords: NO TOX DATA
Call Number: NO TOX DATA(CTN,DMT,MOM,MTM,FNTH,ES,MZB,MLX,CPY)
Notes: Chemical of Concern: CTN,DMT,MOM,MTM,FNTH,ES,MZB,MLX,CPY

68. ---. Growing Capsicums and Chillies in Queensland. 1990: 1-27.
Rec #: 5230
Keywords: NO TOX DATA
Notes: Chemical of Concern: CTN,DMT,MOM,MTM,FNTH,ES,MZB,MLX,CPY
Abstract: Isbn 0-7242-3944-8//

69. Grattidge, R. GROWING CAPSICUMS AND CHILLIES IN QUEENSLAND AUSTRALIA. 1990; 0 , (0): Iii+27p .
Rec #: 7840
Keywords: NO TOXICANT
Notes: Chemical of Concern: PNB,MOM,DMT
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM BOOK INSECT MITE FERTILIZER IRRIGATION PEST CONTROL DISEASE CONTROL HARVESTING INTERSTATE MARKETING
KEYWORDS: General Biology-Institutions
KEYWORDS: Ecology
KEYWORDS: Ecology
KEYWORDS: Biochemical Studies-Minerals
KEYWORDS: Nutrition-Minerals
KEYWORDS: Public Health-General and Miscellaneous
KEYWORDS: Plant Physiology
KEYWORDS: Soil Science-Fertility and Applied Studies (1970-)
KEYWORDS: Horticulture-Vegetables
KEYWORDS: Phytopathology-Disease Control
KEYWORDS: Phytopathology-General and Miscellaneous
KEYWORDS: Pest Control
KEYWORDS: Economic Entomology-Field
KEYWORDS: Economic Entomology-Chemical and Physical Control
KEYWORDS: Invertebrata

KEYWORDS: Invertebrata
KEYWORDS: Solanaceae
KEYWORDS: Insecta-Unspecified
KEYWORDS: AcarinaCOPIED TO REJECT FILE

70. Graves, J. B.; Leonard, B. R.; Clay, P. A., and Burris, E. Evaluation of Selected Insecticides and Insecticide Combinations Against Boll Weevil, Bollworm and Tobacco Budworm, 1993. POP,PHYSOIL,ENV; 1997; 19, 224 (65F).
Rec #: 430
Call Number: NO MIXTURE(CYF,ACP,TDC,PFF),OK(SPS,CYH)
Notes: EcoReference No.: 88568
Chemical of Concern: ACP,TDC,SPS,PFF,CYF,CYH

71. ---. Evaluation of Selected Insecticides and Insecticide Combinations Against Boll Weevil, Bollworm and Tobacco Budworm, 1993. POP,PHYSOIL,ENV; 1997; 19, 224 (65F).
Rec #: 430
Call Number: NO MIXTURE(CYF,ACP,TDC,PFF),OK(SPS,CYH)
Notes: EcoReference No.: 88568
Chemical of Concern: ACP,TDC,SPS,PFF,CYF,CYH

72. Grayson, B. T. and Kleier, D. A. Phloem mobility of xenobiotics: IV. Modelling of pesticide movement in plants. 1990; 30 , (1): 67-80.
Rec #: 1417
Keywords: MODEL
Notes: Chemical of Concern: MOM,CBF,ADC,DMT,PCZ,CYP
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. A model is described that accounts for the effect of physical properties on the mobility of a xenobiotic within the phloem tissue of a plant. This model builds on the intermediate permeability hypothesis by incorporating the effect of acid dissociation. The relative importance of lipophilicity and acid-base properties of compounds is discussed. The sensitivity of the model predictions to plant parameters such as the nature of the sieve tube membranes is also explored. Experimental support for th model is presented using examples from the literature. The systematic behaviour of mobility as a function of physical properties for both non-ionized and acidic compounds is well accounted for by the model with only rare exceptions. Application of the model to commercial plant-protection chemicals is generally consistent with experimental observations. Thus, many of the herbicides that are known to be phloem-mobile are predicted to be so by the model. However, none of the selecte
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biophysics-Membrane Phenomena
KEYWORDS: Biophysics-Biocybernetics (1972-)
KEYWORDS: Movement (1971-)
KEYWORDS: Morphology
KEYWORDS: Plant Physiology
KEYWORDS: Plant Physiology
KEYWORDS: Plant Physiology
KEYWORDS: Pest Control
KEYWORDS: Plantae-UnspecifiedCOPIED TO REJECT FILE

73. Hagley, E. A. C.; Pree, D. J.; Simpson, C. M., and Hikichi, A. Toxicity of Insecticides to Parasites of the Spotted Tentiform Leafminer (Lepidoptera: Gracillariidae). MORENV,MIXTURE; 1981; 113, 899-906.
Rec #: 170
Call Number: NO DURATION(LAB)(ALL CHEMS,TARGET-AZ),MIXTURE,ENDPOINT(FIELD)(ALL CHEMS,TARGET-AZ),TARGET(MOM)
Notes: EcoReference No.: 36955
Chemical of Concern: AZ,ES,PMR,FNV,CYP,MOM

74. Hall, F. R. and Zajac, M. A. Apple, Insecticide Test, 1986. POPENV; 1988; 13, 4-5 (5A).
Rec #: 580
Call Number: OK(DOD),TARGET(PMR,EFV,CBL,TDC,PSM,FBOX),NO MIXTURE(Captan)
Notes: EcoReference No.: 88832
Chemical of Concern: PSM,Captan,DOD,PMR,EFV,FBOX,CBL,TDC

75. Hama, H. Development of Pyrethroid Resistance in the Diamondback Moth, Plutella xylostella LINNE (Lepidoptera: Yponomeutidae). MORTOP; 1987; 22, (2): 166-175.
Rec #: 460
Call Number: NO MIXTURE(PPB),NO CONTROL(CHT,FNV,PMR,CYP,SMT,FPP,TMT,FVL,MLN,PFF,MOM,CBL)
Notes: EcoReference No.: 112647
Chemical of Concern: FNV,PMR,RSM,CYP,CHT,SMT,FPP,TMT,FVL,MLN,PFF,MOM,CBL,PPB,DDT,PYN

76. ---. Development of Pyrethroid Resistance in the Diamondback Moth, Plutella xylostella LINNE (Lepidoptera: Yponomeutidae). MORTOP; 1987; 22, (2): 166-175.
Rec #: 460
Call Number: NO MIXTURE(PPB),NO CONTROL(CHT,FNV,PMR,CYP,SMT,FPP,TMT,FVL,MLN,PFF,MOM,CBL)
Notes: EcoReference No.: 112647
Chemical of Concern: FNV,PMR,RSM,CYP,CHT,SMT,FPP,TMT,FVL,MLN,PFF,MOM,CBL,PPB,DDT,PYN

77. Harris, M. K.; Cutler, B. L., and Ring, D. R. Pecan Nut Loss from Pollination to Harvest. MOR,POPSOIL,ENV,MIXTURE; 1986; 79, (6): 1653-1657.
Rec #: 490
Call Number: NO ENDPOINT(ZnN),NO MIXTURE(CBL,MOM,AZ,Maneb,FNV,SZ)
Notes: EcoReference No.: 90481
Chemical of Concern: CBL,MOM,AZ,ZnN,PHSL,Maneb,SZ,FNV

78. ---. Pecan Nut Loss from Pollination to Harvest. MOR,POPSOIL,ENV,MIXTURE; 1986; 79, (6): 1653-1657.
Rec #: 490
Call Number: NO ENDPOINT(ZnN),NO MIXTURE(CBL,MOM,AZ,Maneb,FNV,SZ)
Notes: EcoReference No.: 90481
Chemical of Concern: CBL,MOM,AZ,ZnN,PHSL,Maneb,SZ,FNV

79. Haskell Laboratories. Initial Submission: Acute Oral Test (Final Report) with Cover Letter Dated 112691. 1977: 13 p.
Rec #: 400
Keywords: MIXTURE
Call Number: NO MIXTURE(MOM)
Notes: EcoReference No.: 77075
Chemical of Concern: MOM

80. ---. Initial Submission: Acute Oral Test (Final Report) With Cover Letter Dated 112691. 1977: 13 p.
Rec #: 5810
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: CSC holds microfiche//Processed at UMD 01/18/07//

81. Haskell Laboratory. Acute Skin Absorption Toxicity of Lv Concentration of Methoamyl/Epn (Lannate/Epn Formulation) (Containing a Mixture of 2-Tert-Butylphenol) in Rabbits W/Cover Letter Dated 05/07/96. 1996: (NTIS/OTS0573018).
Rec #: 5940
Keywords: MIXTURE

Notes: Chemical of Concern: MOM
Abstract: CSC holds Microfiche//Microfiche processed at UMD 01/18/07//

82. ---. Acute Skin Absorption Toxicity of LV Concentration of Methoamyl/EPN (Lannate/EPN Formulation) (Containing a Mixture of 2-tert-Butylphenol) in Rabbits w/Cover Letter Dated 05/07/96. 1996.
Rec #: 460
Keywords: MIXTURE
Call Number: NO MIXTURE(MOM)
Notes: EcoReference No.: 75304
Chemical of Concern: MOM

83. ---. Initial Submission: 3-Month Feeding Study of Ethanimidothioic Acid, N-[[[(Hydroxymethyl)Methylamino]Carb, Methyl Ester, Mixture W/* in Dogs With Cover Letter Dated 08/20/92. 1992: (NTIS/OTS0555079).
Rec #: 5850
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: CSC holds Microfiche//Microfiche processed at UMD 01/18/07//

84. ---. Initial Submission: Acute Skin Absorption Lethal Dose Toxicity Test With Inx-1179-329 in Rabbits With Cover Letter Dated 061592 and Attachments. 1992: (NTIS/OTS0540492).
Rec #: 5910
Keywords: MIXTURE
Notes: Chemical of Concern: MOM,PMR
Abstract: CSC holds Microfiche//Microfiche processed at UMD 01/18/07//

85. ---. Initial Submission: Letter Submitting One Enclosed Feeding and Reproduction Study in Rats on Inh-5249 With Attachment. 1992: 760 p. (NTIS/OTS0535906).
Rec #: 5890
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: CSC holds Microfiche//Microfiche processed at UMD 01/18/07//Mixture no assoc. CAS# on STN Mixture of Methonyl (16752775) and N-methylolmethonyl (75089075)//Was Ecoref 74901//

86. ---. Initial Submission: Median Lethal Dose (Lc50) of Ethanimidothioic Acid, N-[[[(Hydroxymethyl)Methylamino Carbonyl]Oxy], Methyl Ester, Mixture W/*, With Cover Letter Dated 08/20/92. 1992: (NTIS/OTS0555071).
Rec #: 5830
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: CSC holds Microfiche//Microfiche processed at UMD 01/18/07//

87. ---. Initial Submission: Oral Lethal Dose Toxicity Test With Inx-1179-289 in Rats With Cover Letter Dated 061592 and Attachments. 1992: (NTIS/OTS0540511).
Rec #: 5860
Keywords: MIXTURE
Notes: Chemical of Concern: MOM,DFZ
Abstract: CSC holds Microfiche//Microfiche processed at UMD 01/18/07//

88. ---. Initial Submission: Skin Irritation With Inx-1179-329 in Rabbits With Cover Letter Dated 061592 and Attachments. 1992: (NTIS/OTS0540493).
Rec #: 5820
Keywords: MIXTURE
Notes: Chemical of Concern: MOM,PMR
Abstract: CSC holds Microfiche//Microfiche processed at UMD 01/18/07//

89. He Lijun; Wang Chunjian; Sun Yinjuan; Luo Xianli; Zhang Jing, and Lu, K. u. i. Dispersive Liquid-Liquid Microextraction Followed by High-Performance Liquid Chromatography for the Determination of Three Carbamate Pesticides in Water Samples. 2009; 89, (6): 439-448.
Rec #: 260
Keywords: FATE
Notes: Chemical of Concern: MOM
Abstract: Descriptors: Article Subject Terms: Indexing in process
Abstract: A simple, rapid and efficient method, dispersive liquid-liquid microextraction (DLLME) in conjunction with high-performance liquid chromatography (HPLC), has been developed for the determination of three carbamate pesticides (methomyl, carbofuran and carbaryl) in water samples. In this extraction process, a mixture of 35 mL chlorobenzene (extraction solvent) and 1.0 mL acetonitrile (disperser solvent) was rapidly injected into the 5.0 mL aqueous sample containing the analytes. After centrifuging (5 min at 4000 rpm), the fine droplets of chlorobenzene were sedimented in the bottom of the conical test tube. Sedimented phase (20 mL) was injected into the HPLC for analysis. Some important parameters, such as kind and volume of extraction and disperser solvent, extraction time and salt addition were investigated and optimised. Under the optimum extraction condition, the enrichment factors and extraction recoveries ranged from 148% to 189% and 74.2% to 94.4%, respectively. The methods yielded a linear range in the concentration from 1 to 1000 mg L-1 for carbofuran and carbaryl, 5 to 1000 mg L-1 for methomyl, and the limits of detection were 0.,0.9 and 0.1 mg L-1, respectively. The relative standard deviations (RSD) for the extraction of 500 mg L-1 carbamate pesticides were in the range of 1.8-4.6% (n = 6). This method could be successfully applied for the determination of carbamate pesticides in tap water, river water and rain water.
Publisher: Taylor & Francis Group Ltd., 2 Park Square Milton Park, Abingdon Oxford OX14 4RN UK, [URL:http://www.taylorandfrancis.co.uk/]
DOI: 10.1080/03067310802627239
English
Publication Type: Journal Article
Subfile: Pollution Abstracts; Environmental Engineering Abstracts; Environment Abstracts; Water Resources Abstracts; ASFA 3: Aquatic Pollution & Environmental Quality English

90. Hogmire, H. W.; Brown, M. W., and Crim, V. L. Toxicity of Slide Dip Application of Five Insecticides to Apple Aphid and Spirea Aphid (Homoptera: Aphididae). MORTOP; 1990; 25, (1): 10-15.
Rec #: 510
Call Number: OK TARGET(MOM),TARGET(EFV,AZ)
Notes: EcoReference No.: 74108
Chemical of Concern: MOM,EFV,ES,AZ,CPY

91. Hogmire, H. W. and Winfield, T. IGR Evaluation II, 1998. POPENV; 1999; 24, 16.
Rec #: 670
Call Number: OK(AZ),NO MIXTURE(TUZ,MOM,MP)
Notes: EcoReference No.: 88076
Chemical of Concern: AZ,TUZ,MOM,MP

92. ---. Insecticide Evaluation, 1996. 1997; 22, 43-44 (2B).
Rec #: 6490
Keywords: MIXTURE
Notes: Chemical of Concern: PSM,ES,MOM,EFV
Abstract: Saxena, C. R. Arthropod Management Tests, Vol. 22. IV+469p. Entomological Society of America: Lanham, Maryland, USA. ISBN 0-938522-61-2//

93. Horowitz, A. R.; Toscano, N. C.; Youngman, R. R., and Miller, T. A. Synergistic Activity of Binary Mixtures of Insecticides on Tobacco Budworm (Lepidoptera: Noctuidae) Eggs. MORTOP; 1987; 80, (2): 333-337.
Rec #: 1080
Keywords: MIXTURE
Call Number: OK,TARGET(ACP),TARGET(TDC,MOM)

Notes: EcoReference No.: 73691
Chemical of Concern: MOM,ACP,CPY,PNV,TDC,MP,AMZ

94. Horsburgh, R. L. and Kilmer, S. W. Apple, Seasonal Insecticide Evaluations, 1990. POPENV; 1993; 18, 24-26 (26A).
Rec #: 730
Call Number: NO MIXTURE(MP),TARGET(AZ,TDC,MP)
Notes: EcoReference No.: 92322
Chemical of Concern: AZ,MP,TDC

95. Huang, J.; Lee, S. H.; Lin, C.; Medici, R.; Hack, E., and Myers, A. M. Expression in yeast of the T-URF13 protein from Texas male-sterile maize mitochondria confers sensitivity to methomyl and to Texas-cytoplasm-specific fungal toxins. 1990; 9, (2): 339-347.
Rec #: 845
Keywords: NO TOX DATA
Notes: Chemical of Concern: MOM
Abstract: Abstract: The mitochondrial gene T-urf13 from maize (Zea mays L.) with Texas male-sterile (T) cytoplasm codes for a unique 13 kd polypeptide, T-URF13, which is implicated in cytoplasmic male sterility and sensitivity to the insecticide methomyl and to host-specific fungal toxins produced by Helminthosporium maydis race T (HmT toxin) and Phyllosticta maydis (Pm toxin). A chimeric gene coding for T-URF13 fused to the mitochondrial targeting peptide from the Neurospora crassa ATP synthase subunit 9 precursor was constructed. Expression of this gene in the yeast Saccharomyces cerevisiae yielded a polypeptide that was translocated into the membrane fraction of mitochondria and processed to give a protein the same size as maize T-URF13.COPIED TO REJECT FILE

96. Hull, L. A. and Knight, A. L. Effect of Late-Season Fenvalerate and Flucythrinate Applications on European Red Mite (Acari: Tetranychidae) and Tufted Apple Bud Moth (Lepidoptera: Tortricidae) Populations on Apple. PHY,POPSOIL,ENV; 1989; 82, (4): 1174-1179.
Rec #: 510
Call Number: NO CONTROL(FNV,AZ),MIXTURE(CPY,MOM,MP,PSM)
Notes: EcoReference No.: 113751
Chemical of Concern: AZ,FYT,FNV,MP,MOM,CPY,PSM

97. ---. Effect of Late-Season Fenvalerate and Flucythrinate Applications on European Red Mite (Acari: Tetranychidae) and Tufted Apple Bud Moth (Lepidoptera: Tortricidae) Populations on Apple. PHY,POPSOIL,ENV; 1989; 82, (4): 1174-1179.
Rec #: 510
Call Number: NO CONTROL(FNV,AZ),MIXTURE(CPY,MOM,MP,PSM)
Notes: EcoReference No.: 113751
Chemical of Concern: AZ,FYT,FNV,MP,MOM,CPY,PSM

98. Hussein, N. M.; El-Hamaky, H. M. A.; Refaei, A. F., and Hegazy, M. A. Joint Action of Certain Insecticides, Bacillus thuringiensis and Their Mixtures on the Pink Bollworm Infestation in Cotton Plantation of Egypt. POPENV; 1990; 55, (2 Pt. A): 307-312.
Rec #: 530
Call Number: NO ENDPOINT(CYF,TDC)
Notes: EcoReference No.: 92314
Chemical of Concern: CYF,TDC

99. ---. Joint Action of Certain Insecticides, Bacillus thuringiensis and Their Mixtures on the Pink Bollworm Infestation in Cotton Plantation of Egypt. POPENV; 1990; 55, (2 Pt. A): 307-312.
Rec #: 530
Call Number: NO ENDPOINT(CYF,TDC)
Notes: EcoReference No.: 92314
Chemical of Concern: CYF,TDC

100. Iris, A. B.; Grafius, E.; Pett, W., and Bomarito, M. Broccoli Insect Control, 1993. POPENV,MIXTURE; 1994; 19, 59-61 (8E).
Rec #: 760
Call Number: LITE EVAL CODED(PMR),TARGET(TDC,CFP)
Notes: EcoReference No.: 89056
Chemical of Concern: CFP,PMR,TDC

101. Ito, S.; Kudo, K.; Imamura, T.; Suzuki, T., and Ikeda, N. Sensitive determination of methomyl in blood using gas chromatography-mass spectrometry as its oxime tert.-butyldimethysilyl derivative. 1998; 713 , (2): 323-330.
Rec #: 1093
Keywords: CHEM METHODS
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. A sensitive, selective and reliable method was developed to determine methomyl (methyl-N-((methylcarbamoyl)oxylthioacetimidate), a carbamate insecticide in human blood, using gas chromatography-mass spectrometry. Dimethylglyoxime served as an internal standard (I.S.). Methomyl in the blood was converted to its oxime form by sodium hydroxide. The solution made acidic with hydrochloric acid was poured into a column packed with Extrelut. Methomyloxime and I.S. were eluted from the column with a mixture of dichloromethane-ethyl acetate-chloroform (65:25:10), transformed to tert.butyldimethylsilyl derivatives, and analyzed by gas chromatography-mass spectrometry in the electron impact mode. The calibration curves were linear in the concentration range from 1 ng/g to 100 ng/g and 100 ng/g to at least 5000 ng/g. The lower limit of detection was 0.5 ng/g. The absolute recoveries were 72-93% and within-day coefficients of variation were 3.1-5.6% at blood concentrations of 10 and
KEYWORDS: Biochemical Methods-General
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biophysics-General Biophysical Studies
KEYWORDS: Blood
KEYWORDS: Toxicology-General
KEYWORDS: Pest ControlCOPIED TO REJECT FILE

102. Jacobson, R. M. and Thriugnanam, M. New Selective Systemic Aphicides. 1990: 322-339.
Rec #: 90
Call Number: OK TARGET(ADC,DMT,MLN,ACP,AZ),TARGET(MOM)
Notes: EcoReference No.: 74350
Chemical of Concern:
PIM,CPY,DMT,ACP,PPHD,FNV,PHSL,MOM,ADC,MLN,DEM,DS,OML,AZ,ES

103. Johnson, D. R. and Jordan, A. M. Control of Bollworm and Budworm in Cotton Using BT's in Combination with Larvin. POPENV; 1994; 19, 224-225 (66F).
Rec #: 580
Call Number: NO MIXTURE(TDC),NO COC(TFZ)
Notes: EcoReference No.: 95797
Chemical of Concern: TDC

104. ---. Control of Bollworm and Budworm in Cotton Using BT's in Combination with Larvin. POPENV; 1994; 19, 224-225 (66F).
Rec #: 580
Call Number: NO MIXTURE(TDC),NO COC(TFZ)
Notes: EcoReference No.: 95797
Chemical of Concern: TDC

105. Johnson, D. R. and Studebaker, G. Control of Bollworm and Budworm in Cotton Using Insecticide Combinations in South-Central Arkansas, 1991. POPENV; 1993; 18, 232-233 (58F).
Rec #: 570
Call Number: TARGET(CYP,MP),NO MIXTURE(ACP,TDC,MP,MOM)

Notes: EcoReference No.: 92308
Chemical of Concern: LCYT,CYP,ACP,TDC,MP,MOM

106. ---. Control of Bollworm and Budworm in Cotton Using Insecticide Combinations in South-Central Arkansas, 1991. POPENV; 1993; 18, 232-233 (58F).
Rec #: 570
Call Number: TARGET(CYP,MP),NO MIXTURE(ACP,TDC,MP,MOM)
Notes: EcoReference No.: 92308
Chemical of Concern: LCYT,CYP,ACP,TDC,MP,MOM

107. Kanga, L. H. B.; Plapp, F. W. Jr.; Wall, M. L.; Elzen, G. W., and Lopez, J. Resistance Monitoring and Mechanisms in the Tobacco Budworm to Organophosphate, Carbamate, and Cyclodiene Insecticides. MORENV; 1994; 2, 810-815.
Rec #: 600
Call Number: NO CONTROL(PFF,MOM,ES),NO MIXTURE(TBF,PPB,TARGET-FYC,PFF)
Notes: EcoReference No.: 93009
Chemical of Concern: PFF,MOM,ES,TBF,PPB,FYC

108. ---. Resistance Monitoring and Mechanisms in the Tobacco Budworm to Organophosphate, Carbamate, and Cyclodiene Insecticides. MORENV; 1994; 2, 810-815.
Rec #: 600
Call Number: NO CONTROL(PFF,MOM,ES),NO MIXTURE(TBF,PPB,TARGET-FYC,PFF)
Notes: EcoReference No.: 93009
Chemical of Concern: PFF,MOM,ES,TBF,PPB,FYC

109. Karner, M.; Ewing, S.; Kelley, M., and Goodson, J. Cotton Aphid Control, 1991. POPSOIL,ENV,MIXTURE; 1992; 17, 229-230 (68F).
Rec #: 820
Call Number: NO
COC(DKG),TARGET(ACP,MTM,DMT,DCTP,CPY,CYP,CYF,TDC,MOM,BFT),NO MIXTURE(ES,EFV)
Notes: EcoReference No.: 82244
Chemical of Concern: DMT,CYF,TDC,MOM,EFV,MTM,CYP,CPY,BFT,DCTP,ACP,ES,LCYT

110. ---. Cotton Aphid Control, 1991. POPSOIL,ENV,MIXTURE; 1992; 17, 229-230.
Rec #: 690
Call Number: OK(ALL CHEMS),NO COC(DKG),OK
TARGET(TDC,ACP,MTM),TARGET(MOM)
Notes: EcoReference No.: 82244
Chemical of Concern: DMT,CYF,TDC,MOM,EFV,MTM,CYP,CPY,BFT,DCTP,CYH,ACP,ES

111. Kaufman, P. E.; Scott, J. G., and Rutz, D. A. Monitoring Insecticide Resistance in House Flies (Diptera: Muscidae) from New York Dairies. MOR. P.E.Kaufman, Dep. of Entomol., Cornell Univ., Ithaca, NY 14853-0999: ENV,MIXTURE; 2001; 57, (6): 514-521.
Rec #: 280
Call Number: OK TARGET(DMT,CYF),TARGET(MOM)
Notes: EcoReference No.: 66559
Chemical of Concern: MOM,PMR,TVP,DMT,CYF

112. Kirby-Smith, W. W.; Thompson, S. P., and Forward, R. B. Use of Grass Shrimp (Palaemonetes pugio) Larvae in Field Bioassays of the Effects of Agricultural Runoff into Estuaries. 1989: 29-36.
Rec #: 520
Keywords: MIXTURE/ NO CONC
Call Number: NO CONC(PMR,TDC,TLM)
Notes: Chemical of Concern: PMR,TDC,TLM

113. Klein, C. D.; Johnson, D. R., and Jordan, A. M. The Role of Bacillus thuringiensis plus Ovicides in Management of the Heliothine Complex. POPENV,MIXTURE; 1995; 2, 880-881.
Rec #: 630
Call Number: NO COC(TFZ),NO MIXTURE(MOM,TDC),TARGET(OML)
Notes: EcoReference No.: 95629
Chemical of Concern: MOM,TDC,LCYT,OML

114. ---. The Role of Bacillus thuringiensis plus Ovicides in Management of the Heliothine Complex. POPENV,MIXTURE; 1995; 2, 880-881.
Rec #: 630
Call Number: NO COC(TFZ),NO MIXTURE(MOM,TDC),TARGET(OML)
Notes: EcoReference No.: 95629
Chemical of Concern: MOM,TDC,LCYT,OML

115. Klein, C. D.; Slaymaker, P. H.; Tugwell, N. P., and Wall, M. L. Control of Bollworm, Tobacco Budworm, and Beet Armyworm in Cotton with Selected Insecticides, 1993. POPENV; 1994; 19, 227 (70F).
Rec #: 620
Call Number: OK(MVP),NO MIXTURE(ES,CPY,CFP,TDC,MP,Naled)
Notes: EcoReference No.: 89106
Chemical of Concern: TDC,ES,MP,CPY,Naled,CFP,MVP

116. ---. Control of Bollworm, Tobacco Budworm, and Beet Armyworm in Cotton with Selected Insecticides, 1993. POPENV; 1994; 19, 227 (70F).
Rec #: 620
Call Number: OK(MVP),NO MIXTURE(ES,CPY,CFP,TDC,MP,Naled)
Notes: EcoReference No.: 89106
Chemical of Concern: TDC,ES,MP,CPY,Naled,CFP,MVP

117. Kristensen, M.; Spencer, A. G., and Jespersen, J. B. The Status and Development of Insecticide Resistance in Danish Populations of the Housefly Musca domestica L. mikristensen@ssl.dk: 2001; 57, (1): 82-89.
Rec #: 880
Call Number: NO MIXTURE(PPB),OK(AZM),TARGET(MOM,DMT,RSM,PTP)
Notes: EcoReference No.: 69976
Chemical of Concern: RSM,MOM,DMT,PPB,PTP,AZM

118. Kuehlmann, D. Hh. THE SENSITIVITY OF CORAL REEFS TO ENVIRONMENTAL POLLUTION. 1988; 17 , (1): 13-21.
Rec #: 1670
Keywords: SURVEY, MIXTURE, EFFLUENT
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM CORAL-UNICELLULAR ALGAE SYMBIOSIS MUNICIPAL SEWAGE EUTROPHICATION COASTAL AREA DENUDATION PESTICIDE-HERBICIDE CONTAMINATION RADIOACTIVE CONTAMINATION
KEYWORDS: Radiation-Radiation Effects and Protective Measures
KEYWORDS: Ecology
KEYWORDS: Ecology
KEYWORDS: Ecology
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-Sewage Disposal and Sanitary Measures
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Agronomy-Weed Control
KEYWORDS: Pest Control
KEYWORDS: Invertebrata
KEYWORDS: Algae-Unspecified
KEYWORDS: CnidariaCOPIED TO REJECT FILE

119. Kuhr, R. J. and Hessney, C. W. Toxicity and Metabolism of Methomyl in the European Corn Borer. BCM,PHY,MORINJECT; 1977; 7, 301-308.
Rec #: 670
Call Number: NO MIXTURE(MOMOX,ACAC,NaCBN),NO CONTROL(MOM)
Notes: EcoReference No.: 117169
Chemical of Concern: MOM,MOMOX,ACAC,NaCBN

120. ---. Toxicity and Metabolism of Methomyl in the European Corn Borer. BCM,PHY,MORINJECT; 1977; 7, 301-308.
Rec #: 670
Call Number: NO MIXTURE(MOMOX,ACAC,NaCBN),NO CONTROL(MOM)
Notes: EcoReference No.: 117169
Chemical of Concern: MOM,MOMOX,ACAC,NaCBN

121. Kvien, C. K.; Culbreath, A. K.; Wilcut, J. W.; Brown, S. L., and Bell, D. K. Peanut Production in Systems Restricting Use of Pesticides Based on Carcinogenicity or Leachability. 1993; 20, (2): 118-124.
Rec #: 580
Keywords: MIXTURE
Call Number: NO MIXTURE(MLN,BMY,Captan,MZB,CTN,MLX,24DB,AND,CPY,MOM)
Notes: Chemical of Concern: MLN,BMY,Captan,MZB,CTN,MLX,24DB,AND,CPY,MOM

122. ---. Peanut Production in Systems Restricting Use of Pesticides Based on Carcinogenicity or Leachability. 1993; 20, (2): 118-124.
Rec #: 8430
Keywords: MIXTURE
Notes: Chemical of Concern: MLN,BMY,Captan,MZB,CTN,MLX,24DB,AND,CPY,MOM
Abstract: Author Affiliation: Dep. Crop and Soil Sci., Coastal Plain Stn., Univ. Ga., P.O. Box 748, Tifton, GA 31793//Peanut science//

123. Lancaster, S. H.; Jordan, D. L.; Spears, J. F.; York, A. C.; Wilcut, J. W.; Monks, D. W.; Batts, R. B., and Brandenburg, R. L. Sicklepod (Senna obtusifolia) Control and Seed Production After 2,4-DB Applied Alone and with Fungicides or Insecticides. POP,REP,GROSOIL,ENV,MIXTURE; 2005; 19, (2): 451-455.
Rec #: 690
Call Number: OK(24DB),NO MIXTURE(TEZ,AZX,CTN,FNZ,CBL,BSC,EFV,PRC,FPP,LCYT,ACP,IDC,MOM)
Notes: EcoReference No.: 90198
Chemical of Concern: 24DB,TEZ,AZX,CTN,FNZ,BSC,PRC,ACP,CBL,EFV,FPP,IDC,LCYT,MOM

124. ---. Sicklepod (Senna obtusifolia) Control and Seed Production After 2,4-DB Applied Alone and with Fungicides or Insecticides. POP,REP,GROSOIL,ENV,MIXTURE; 2005; 19, (2): 451-455.
Rec #: 690
Call Number: OK(24DB),NO MIXTURE(TEZ,AZX,CTN,FNZ,CBL,BSC,EFV,PRC,FPP,LCYT,ACP,IDC,MOM)
Notes: EcoReference No.: 90198
Chemical of Concern: 24DB,TEZ,AZX,CTN,FNZ,BSC,PRC,ACP,CBL,EFV,FPP,IDC,LCYT,MOM

125. Lander, F. and Ronne, M. Frequency of sister chromatid exchange and hematological effects in pesticide-exposed greenhouse sprayers. 1995; 21 , (4): 283-288.
Rec #: 1922
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: MOM,ADC,CBF,CYP
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. Objectives: A cross-sectional study was conducted to investigate whether exposure to pesticides in greenhouses causes hemato- or genotoxic damage in sprayers. Methods: The frequency of sister chromatid exchange (SCE) in cultured lymphocytes and the number of blood erythrocytes, leucocytes, and thrombocytes were

studied among 134 greenhouse sprayers exposed to a complex mixture of almost 50 insecticides, fungicides, and growth regulators and among 157 referents. Results: The hematological profiles did not differ between the exposed and unexposed groups. The SCE frequency was elevated in nonsmoking, but not in currently smoking sprayers when compared with the referents. There was a slight tendency towards an increased SCE frequency with decreasing degree of protection during pesticide applications. The frequency of pesticide applications, lifetime pesticide exposure, and in season plasma-cholinesterase inhibition (as an estimate of current exposure to organophosphates and
KEYWORDS: Cytology and Cytochemistry-Human
KEYWORDS: Genetics and Cytogenetics-Human
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biochemical Studies-Nucleic Acids
KEYWORDS: Blood
KEYWORDS: Blood
KEYWORDS: Psychiatry-Addiction-Alcohol
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-Occupational Health
KEYWORDS: Pest Control
KEYWORDS: HominidaeCOPIED TO REJECT FILE

126. Latheef, M. A. Influence of Spray Mixture Rate and Nozzle Size of Sprayers on Toxicity of Profenofos and Thiodicarb Formulations Against Tobacco Budworm on Cotton. MOR,BEHENV; 1995 Aug; 14, (5): 423-427.
Rec #: 920
Call Number: TARGET(TDC,PFF)
Notes: EcoReference No.: 89069
Chemical of Concern: PFF,TDC

127. Layton, B.; Howell, M., and Head, B. Late Season Control of Bollworm/Budworm, 1991. POPSOIL,ENV,MIXTURE; 1992; 17, 232-233 (72F).
Rec #: 940
Call Number: TARGET(ACP,TDC,PFF),NO COC(DKG)
Notes: EcoReference No.: 82243
Chemical of Concern: LCYT,SPS,TDC,ACP,CYH,PFF

128. Leonard, B. R.; Boethel, D. J.; Sparks, A. N. Jr.; Layton, M. B.; Mink, J. S.; Pavloff, A. M.; Burris, E., and Graves, J. B. Variations in Response of Soybean Looper (Lepidoptera: Noctuidae) to Selected Insecticides in Louisiana. MOR,POPSOIL,ENV,TOP; 1990; 83, (1): 27-34.
Rec #: 1090
Call Number: OK,TARGET(ACP),TARGET(MOM)
Notes: EcoReference No.: 74115
Chemical of Concern: MOM,ACP,PMR,LCYT,TLM

129. Leonard, R. A. MOVEMENT OF PESTICIDES INTO SURFACE WATERS. 1990; 0 , (0): 303-350.
Rec #: 18410
Keywords: FATE
Notes: Chemical of Concern: SZ,MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM RAINFALL RUNOFF DILUTION SEDIMENTATION VEGETATIVE TRAPPING DEGRADATION COMPUTER MODELS
KEYWORDS: General Biology-Information
KEYWORDS: Ecology
KEYWORDS: Biochemical Studies-General
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Pest ControlCOPIED TO REJECT FILE

130. Linduska, J. J.; Embrey, M., and Dively, G. Foliar Sprays to Control Corn Earworms, Dusky Sap Beetle, Fall Armyworm and European Corn Borers in Sweet Corn, 1990. POPENV; 1991; 16, 76 (35E).
Rec #: 1000
Call Number: NO MIXTURE(CPY),TARGET(MP,TDC,EFV)
Notes: EcoReference No.: 92310
Chemical of Concern: CPY,LCYT,MP,TDC,EFV

131. Linduska, J. J.; Ross, M., and Stevenson, S. Foliar Sprays to Control Corn Earworms in Sweet Corn, 1991. POPENV,MIXTURE; 1992; 17, 106 (40E).
Rec #: 1010
Call Number: LITE EVAL CODED(PMR),TARGET(TDC,EFV,MP)
Notes: EcoReference No.: 92319
Chemical of Concern: TDC,EFV,MP,PMR

132. Maddy, K. T.; Edmiston, S., and Richmond, D. ILLNESS INJURIES AND DEATHS FROM PESTICIDE EXPOSURES IN CALIFORNIA USA 1949-1988. 1990; Berlin, West Germany. Illus. Isbn 0-387-97207-2; Isbn 3-540-97207-2.; 0 , (0): 57-124.
Rec #: 2550
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: RSM,MOM,CBF,ADC,CST,CYP
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM REVIEW HUMAN OCCUPATIONAL EXPOSURE
KEYWORDS: Social Biology
KEYWORDS: Biochemical Studies-General
KEYWORDS: Pathology
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health-Public Health Administration and Statistics
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Public Health: Epidemiology-Organic Diseases and Neoplasms
KEYWORDS: Pest Control
KEYWORDS: HominidaeCOPIED TO REJECT FILE

133. Maklakov, A.; Ishaaya, I.; Freidberg, A.; Yawetz, A.; Horowitz, A. R., and Yarom, I. Toxicological Studies of Organophosphate and Pyrethroid Insecticides for Controlling the Fruit Fly Dacus ciliatus (Diptera: Tephritidae). MOR,REPORAL,TOP,MIXTURE; 2001; 94, (5): 1059-1066.
Rec #: 50
Call Number: LITE EVAL CODED(PPB,DMT),OK(ALL CHEMS),OK TARGET(CYP,BFT,ACP),TARGET MLN,MOM
Notes: EcoReference No.: 63712
Chemical of Concern: ACP,BFT,CYP,DMT,FPP,MLN,MOM,PPB,PYT

134. Martinez-Chuecos, J.; Molinero-Somolino, F.; Sole-Violan, J., and Rubio-Sanz, R. Management of methomyl poisoning. 1990; 9 , (4): 251-254.
Rec #: 1158
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. Eleven patients who suffered methomyl poisoning were admitted to the intensive care unit. All of them showed cholinergic symptoms similar to that produced by organophosphate insecticides but of lesser intensity. Plasma cholinesterase activity was normal in four patients and moderately lower in the remainder (always above 32%). All of the patients showed miosis and none presented with bradycardia. No complications were detected in the acute stage or on further examination a month later. The treatment applied was: (1) gastric lavage or washing the skin; (2) the adminsitration of activated charcoal; (3) small doses of atropine according to symptoms (average of total dose 4.3 mg). All of the patients recovered within 24-48 h. In conclusion, we can assume that methomy poisoning does not produce serious complications if moderate surveillance is assumed. Only small doses of atropine are required

to counteract symptoms.
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biochemical Studies-Proteins
KEYWORDS: Enzymes-Physiological Studies
KEYWORDS: Pathology
KEYWORDS: Pharmacology-Clinical Pharmacology (1972-)
KEYWORDS: Toxicology-General
KEYWORDS: Toxicology-Antidotes and Preventative Toxicology (1972-)
KEYWORDS: Pest Control
KEYWORDS: HominidaeCOPIED TO REJECT FILE

135. Martinez-Vidal, J. L.; Parrilla, P.; Fernandez-Alba, A. R.; Carreno, R., and Herrera, F. A new sequential procedure for the efficient and automated location of optimum conditions in high performance liquid chromatography (HPLC). 1995; 18 , (15): 2969-2989.
Rec #: 1918
Keywords: METHODS
Notes: Chemical of Concern: MOM,ADC,CBF
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. A new sequential Optimization Procedure by Search Point (OPSP) based on Hooke-Jeeves algorithm is developed. The procedure is an automated multifactor optimization of conditions for an HPLC separation. Its usefulness in computer-assisted method development is shown by the experimental mobile phase optimization of an isocratic reverse phase liquid chromatography separation of a mixture of six selected pesticides. The relative composition of a ternary mobile phase (Acetonitrile, Methanol, Water) was varied during the optimization process. An objective function (OF) which was used as the criterion of quality of the chromatographic separation is described. The performance of this new chromatographic method is evaluated either by plotting the map of the separation quality using a Grid Search method or by comparing the results with the ones obtained by the application of a Modified Simplex method, in both cases over the same triangular (Acetonitrile, Methanol, Water) paramete
KEYWORDS: Mathematical Biology and Statistical Methods
KEYWORDS: Biochemical Methods-General
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biophysics-General Biophysical Techniques
KEYWORDS: Pest ControlCOPIED TO REJECT FILE

136. Mascarenhas, R. N.; Fitzpatrick, B. J.; Boyd, M. L.; Clemens, C. G.; Mascarenhas, V. J., and Boethel, D. J. Evaluation of Selected Experimental and Standard Insecticides Against Soybean Looper and Bean Leaf Beetle, 1996. POPENV,MIXTURE; 1997; 22, 315 (127F).
Rec #: 1060
Call Number: LITE EVAL CODED(PMR),NO COC(TFZ),TARGET(TDC,MFZ,EMMB)
Notes: EcoReference No.: 89665
Chemical of Concern: TDC,PMR,EMMB,MFZ

137. Mascarenhas, V. J. and Griffin, J. L. Weed Control Interactions Associated with Roundup and Insecticide Mixtures. POP,GROSOIL,ENV,MIXTURE; 1997; 1, 799-801.
Rec #: 770
Call Number: NO MIXTURE(DCTP,CPY,MOM),TARGET(GYPI)
Notes: EcoReference No.: 101515
Chemical of Concern: GYPI,DCTP,LCYT,CPY,MOM

138. ---. Weed Control Interactions Associated with Roundup and Insecticide Mixtures. POP,GROSOIL,ENV,MIXTURE; 1997; 1, 799-801.
Rec #: 770
Call Number: NO MIXTURE(DCTP,CPY,MOM),TARGET(GYPI)
Notes: EcoReference No.: 101515
Chemical of Concern: GYPI,DCTP,LCYT,CPY,MOM

139. Mason, Y.; Choshen, E., and Rav-Acha, C. Carbamate Insecticides: Removal from Water by Chlorination and Ozonation. MORWATER,AQUA,MIXTURE; 1990; 24, (1): 11-21.
Rec #: 780
Call Number: LITE EVAL CODED(ADC),NO TOX DATA(CBL,MOM)
Notes: EcoReference No.: 117396
Chemical of Concern: CBL,MOM,Cl,ADC

140. ---. Carbamate Insecticides: Removal from Water by Chlorination and Ozonation. MORWATER,AQUA,MIXTURE; 1990; 24, (1): 11-21.
Rec #: 780
Call Number: LITE EVAL CODED(ADC),NO TOX DATA(CBL,MOM)
Notes: EcoReference No.: 117396
Chemical of Concern: CBL,MOM,Cl,ADC

141. Mason, Y.; Choshen, E., and Rav-Acha, C. Carbamate insecticides: Removal from water by chlorination and ozonation. 1990; 24 , (1): 11-22.
Rec #: 1117
Keywords: NO SPECIES
Notes: Chemical of Concern: MOM,ADC
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. A simple approach for removal of carbamates from drinking water by disinfection is presented. Four carbamates, aldicarb, methomyl, carbaryl and propoxur were reacted with excess of each of three disinfectants, Cl2, ClO2 and O3. Carbaryl and propoxur did not react with chlorine, none of the selected carbamates reacted with ClO2, and all reacted very rapidly with O3. The reaction kinetics were determined for aldicarb and Cl2 and for methomyl and Cl2. Product analysis for the reaction of aldicarb and Cl2 was carried out using reverse-phase HPLC and GC-MS. The common degradation products, aldicarb-sulfoxide and aldicarb-sulfone were found together with other by-products. A mechanism is suggested based upon an electrophilic ionic attack by hypochlorous acid. A possible mechanism of electrophilic attack by ozone is also suggested. A preliminary bioassay using Daphnia magna, to compare the toxicity of aldicarb and chlorination by-products of aldicarb showed that the by-products
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-Sewage Disposal and Sanitary Measures
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Pest Control
KEYWORDS: Economic Entomology-GeneralCOPIED TO REJECT FILE

142. Mcconnell, R.; Pacheco Anton Af, and Magnotti, R. Crop duster aviation mechanics: High risk for pesticide poisoning. 1990; 80 , (10): 1236-1239.
Rec #: 1408
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. A cross-sectional medical survey was conducted among 63 Nicaraguan aviation mechanics exposed to organophosphate and other toxic pesticides. Thirty-one (49 percent) reported having been acutely poisoned on the job. Also, seven of 14 novice mechanics, with less than one year on the job, reported that they had been poisoned. Thirty-eight (61 percent) had cholinesterase levels below the lower limit of normal, including three workers with levels less than 20 percent of the lower limit of normal. Risk factors for low cholinesterase included recent hire and recent poisoning. Workers did not use protective equipment, nor were there facilities for bathing on site. As a result of this survey, the government has prohibited the mixing and loading of pesticides at this airport and requires the washing of planes prior to maintenance work; coveralls and thin, pesticide impermeable gloves are to be issued to mechanics handling pesticide-contaminated parts. Closed system mixing and loa
KEYWORDS: General Biology-Institutions
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biochemical Studies-Proteins
KEYWORDS: Enzymes-Physiological Studies

KEYWORDS: Pathology
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-Occupational Health
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Pest Control
KEYWORDS: Economic Entomology-Chemical and Physical Control
KEYWORDS: HominidaeCOPIED TO REJECT FILE

143. McKenzie, C. L.; Cartwright, B., and Rowland, S. Control of Broccoli Pests in Southeastern Oklahoma, 1992. POP,GROSOIL,ENV,MIXTURE; 1993; 18, 85-88 (8E).
Rec #: 1120
Call Number: LITE EVAL CODED(PMR),OK(IMC),EFFICACY(TDC),TARGET(BFT,CYP)
Notes: EcoReference No.: 92323
Chemical of Concern: BFT,CYP,PMR,LCYT,TDC,IMC

144. Micinski, S.; Fitzpatrick, B. J., and Graves, J. B. Control of the Bollworm-Tobacco Budworm Complex, 1991. POPSOIL,ENV,MIXTURE; 1992; 17, 237-238 (79F).
Rec #: 1180
Call Number: LITE EVAL CODED(ACP),EFFICACY(BFT,CYF,CYP,PFF,CFP,AMZ,EFV,TDC)
Notes: EcoReference No.: 82242
Chemical of Concern: AMZ,LCYT,BFT,CYF,CYH,CFP,CYP,PFF,EFV,ACP,TDC,SPS

145. Micinski, S.; Kirby, M. L., and Graves, J. B. Late-Season Control of the Bollworm-Tobacco Budworm Complex, 1990. POPENV; 1990; 16, 196 (88F).
Rec #: 1160
Call Number: TARGET(ACP,TDC)
Notes: EcoReference No.: 90711
Chemical of Concern: TDC,ACP,LCYT

146. Miles, C. J. and Oshiro, W. C. Degradation of methomyl in chlorinated water. 1990; 9 , (5): 535-540.
Rec #: 1089
Keywords: NO SPECIES
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. Methomyl degrades rapidly in chlorinated water and the rate increases with decreasing pH, increasing temperature and increasing chlorine concentrations. Reaction rate with free chlorine is 1,000-fold faster than with chloramine. Methomyl forms methomyl sulfoxide and N-chloromethomyl before degrading to acetic acid, methanesulfonic acid and dichloromethylamine.
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biophysics-Molecular Properties and Macromolecules
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Pest ControlCOPIED TO REJECT FILE

147. Miller, Darren A. and Chamberlain, Michael J. Plant community response to burning and herbicide site preparation in eastern Louisiana, USA. 2008 Mar 20-; 255, (3-4): 774-780.
Rec #: 140
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: Keywords: Forest management
Keywords: Herbicide
Keywords: Imazapyr
Keywords: Intensive forestry
Keywords: Louisiana
Keywords: Prescribed fire
Keywords: Site preparation

Keywords: Stand establishment
Keywords: Triclopyr
Keywords: Vegetation management
Keywords: Plant diversity
Keywords: Plant richness
Keywords: Early successional habitat
Abstract: High yield commercial forests are an important source of fiber for global forest product needs and the southeastern United States is a key region for global wood supply needs with intensively managed pine stands (Pinus spp.) an important component of forested landscapes in this region. Concern has arisen over possible effects of stand establishment practices on vegetation communities within commercial forests, particularly relative to use of herbicides and burning. Therefore, we examined response of plant communities to site preparation within intensively managed pine stands in eastern Louisiana, USA that were either prescribe burned (PF; n = 5) or treated with a combination of herbicides (imazapyr and triclopyr) and prescribe burned (PFH; n = 5) during 2002. We used 5 m line intercepts (n = 10 per stand) to quantify species richness, diversity, and relative abundance of plant species for 3 years post-treatment (2003-2005) with a repeated measures analysis of variance. We documented 80 genera or species of plants and neither species richness nor diversity differed between treatments. Site preparation with PFH appeared to promote development of an herbaceous plant community and reduced relative abundance of woody plants, whereas PF-treated sites were dominated by woody vegetation. Our results demonstrate that different plant communities result from PF and PFH site preparation and may place stands on different successional trajectories. We suggest PFH site preparation may increase availability of early successional vegetation associations on managed forest landscapes and may extend the time stands stay in this successional stage. However, increased crop tree growth from site preparation may shorten open canopy conditions 0378-1127

148. Moawad, G.; Khidr, A. A.; Zaki, M.; Critchley, B. R.; McVeigh, L. J., and Campion, D. G. Large-Scale Use of Hollow Fibre and Microencapsulated Pink Bollworm Pheromone Formulations Integrated with Conventional Insecticides for the Control of the Cotton Pest Complex in Egypt. 1991; 37, (1): 10-16.
Rec #: 660
Keywords: MIXTURE
Call Number: NO MIXTURE(TDC,CPY,FNV,CYF)
Notes: Chemical of Concern: TDC,CPY,FNV,CYF

149. ---. Large-Scale Use of Hollow Fibre and Microencapsulated Pink Bollworm Pheromone Formulations Integrated With Conventional Insecticides for the Control of the Cotton Pest Complex in Egypt. 1991; 37, (1): 10-16.
Rec #: 10430
Keywords: MIXTURE
Notes: Chemical of Concern: TDC,CPY,FNV,CYF
Abstract: Author Affiliation: Plant Protection Res. Inst., Ministry Agric., Cairo, Egypt//

150. Montz, W. E. Jr.; Scanlon, P. F., and Kirkpatrick, R. L. Effects of Field Application of the Anti-cholinesterase Insecticide Methomyl on Brain Acetylcholinesterase Activities in Wild Mus musculus. 1983; 31, 158-163.
Rec #: 670
Keywords: MIXTURE
Call Number: NO MIXTURE(MOM)
Notes: EcoReference No.: 38011
Chemical of Concern: MOM,TXP

151. ---. Effects of Field Application of the Anti-Cholinesterase Insecticide Methomyl on Brain Acetylcholinesterase Activities in Wild Mus Musculus. 1983; 31, 158-163.
Rec #: 10510
Keywords: MIXTURE
Notes: Chemical of Concern: MOM,TXP

152. Moussa, Mounir; Ouazzani, Chadia; Bonavent, Jean-Francois; Berville, Andre, and Ghazi, Alexandre. Possible involvement of the ATPase in the response of susceptible maize mitochondria to the toxin of Helminthosporium maydis, race T and to methomyl. 1990; 66, (1): 81-86.
Rec #: 360
Keywords: IN VITRO
Notes: Chemical of Concern: MOM
Abstract: T-toxin and the insecticide methomyl dissipate the membrane potential in mitochondria isolated from a Texas (T) cytoplasmic male-sterile corn. These compounds have no effect on mitochondria isolated from normal (N) corn. We show here that treatment of Texas mitochondria with oligomycin drastically enhances the sensitivity of these mitochondria to T-toxin and to methomyl. In addition, T-toxin and methomyl are able to specifically inhibit ATPase activity of soluble F1-ATPase purified from Texas mitochondria. These observations would indicate that the 13-kDa protein, recently implicated as the target of t-toxin and methomyl (Dewey et al., Proc. Natl. Acad. Sci. U.S.A., 84 (1987) 5374-5378), is associated with the mitochondrial ATPase.COPIED TO REJECT FILE

153. Natskova, V. and Karajova, O. Efficiency of Some Preparations on the Imago and Larvae of Liriomyza trifolii and Liriomyza bryoniae (Diptera: Agromysidae). 1990; 27, (7): 96-101 (RUS) (ENG ABS).
Rec #: 690
Keywords: NON-ENGLISH
Call Number: NO FOREIGN(MOM,PMR,CYP,ADC,OML)
Notes: Chemical of Concern: MOM,PMR,CYP,ADC,OML

154. ---. Efficiency of Some Preparations on the Imago and Larvae of Liriomyza Trifolii and Liriomyza Bryoniae (Diptera: Agromysidae). 1990; 27, (7): 96-101 (RUS) (ENG ABS).
Rec #: 10760
Keywords: NON-ENGLISH
Notes: Chemical of Concern: MOM,PMR,CYP,ADC,OML
Abstract: Inst. Plant Prot., Kostinbrod, Bulg.//WAS ECOREF 104052//Rastenievudni Nauki (Plant Sci.)//ISSN: 0568-465X//

155. Nielsen, S. L. Chemicals Tested in the Laboratory for the Control of Black Current Gall Mite (Cecidophyopsis ribis) Westw. MORENV,MIXTURE; 1987; 91, (1): 89-94.
Rec #: 100
Call Number: NO CONTROL(ALL CHEMS)
Notes: EcoReference No.: 77570
Chemical of Concern: TDF,OML,PRM,CYP,FNV,MOM,DM,Captan,BMY,CTN,FPP

156. Nord, J. C. Toxicities of Insecticide Residues on Loblolly Pine Foliage to Leaffooted Pine Seed Bug Adults (Heteroptera: Coreidae). MORENV; 1990; 25, (1): 3-9.
Rec #: 310
Call Number: OK TARGET(DMT,MLN,AZ),TARGET(MOM)
Notes: EcoReference No.: 64390
Chemical of Concern: MOM,FNV,DM,AZ,PRM,PSM,FNT,PPX,TCF,MLN,CPYM,CPY,DMT

157. Osman, A. A.; Abo-Korah, S. M., and Ghattas, A. Toxicity of Some New Pesticides to Mites on Cotton. POPENV,MIXTURE; 1985; 55, (8): 533-536.
Rec #: 880
Call Number: NO ENDPOINT(DM,FPP,CYP,FYT,TDC)
Notes: EcoReference No.: 64215
Chemical of Concern: DM,FPP,CYP,FYT,TDC

158. ---. Toxicity of Some New Pesticides to Mites on Cotton. POPENV,MIXTURE; 1985; 55, (8): 533-536.
Rec #: 880
Call Number: NO ENDPOINT(DM,FPP,CYP,FYT,TDC)
Notes: EcoReference No.: 64215
Chemical of Concern: DM,FPP,CYP,FYT,TDC

159. Palumbo, J. C. Efficacy of Selected Insecticides for Control of Cabbage Looper in Cauliflower.
POPSOIL,ENV,MIXTURE; 1997; 22, 116 (37E).
Rec #: 890
Call Number: NO MIXTURE(TDC)
Notes: EcoReference No.: 91332
Chemical of Concern: TDC,LCYT

160. ---. Efficacy of Selected Insecticides for Control of Cabbage Looper in Cauliflower.
POPSOIL,ENV,MIXTURE; 1997; 22, 116 (37E).
Rec #: 890
Call Number: NO MIXTURE(TDC)
Notes: EcoReference No.: 91332
Chemical of Concern: TDC,LCYT

161. Papathakis, M. L.; Feng, H. M., and Lee, S. M. ENZYME INHIBITION ASSAY TO SCREEN N METHYLCARBAMATE PESTICIDE RESIDUES IN FRUITS AND VEGETABLES. 1990; 200 , (1-2): Agro 62.
Rec #: 1404
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: MOM,ADC,CBF
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM ABSTRACT EEL CROP MATRIX PROPOXUR OXAMYL ALDICARB SULFOXIDE ALDICARB CARBOFURAN 3 HYDROXYCARBOFURAN METHOMYL METHIOCARB CARBARYL INSECTICIDE ACETONITRILE CHOLINESTERASE ASSAY KIT
KEYWORDS: General Biology-Symposia
KEYWORDS: Biochemical Studies-General
KEYWORDS: Enzymes-Methods
KEYWORDS: Horticulture-Vegetables
KEYWORDS: Horticulture-General
KEYWORDS: Pest Control
KEYWORDS: Economic Entomology-Chemical and Physical ControlCOPIED TO REJECT FILE

162. Plato, A. M. and Plato, T. A. Low Rate Multiple Application of BT+ Ovicide for Heliothis Control in Cotton.
POPENV; 1992: 1073-1076.
Rec #: 930
Call Number: NO MIXTURE,NO ENDPOINT(TDC)
Notes: EcoReference No.: 92306
Chemical of Concern: TDC,LCYT

163. ---. Low Rate Multiple Application of BT+ Ovicide for Heliothis Control in Cotton. POPENV; 1992: 1073-1076.
Rec #: 930
Call Number: NO MIXTURE,NO ENDPOINT(TDC)
Notes: EcoReference No.: 92306
Chemical of Concern: TDC,LCYT

164. Pree, D. J. Resistance Management in Multiple-Pest Apple Orchard Ecosystems in Eastern North America. 1990: 261-276.
Rec #: 790
Keywords: REVIEW
Call Number: NO REVIEW(MOM),TARGET(MOM)
Notes: EcoReference No.: 70807
Chemical of Concern: MOM

165. ---. Resistance Management in Multiple-Pest Apple Orchard Ecosystems in Eastern North America. 1990: 261-276.

Rec #: 11920
Keywords: REVIEW
Notes: Chemical of Concern: MOM

166. Pree, D. J.; Archibald, D. E., and Cole, K. J. Insecticide Resistance in Spotted Tentiform Leafminer (Lepidoptera: Gracillariidae): Mechanisms and Management. MOR,BCMTOP; 1990; 83, (3): 678-685.
Rec #: 950
Call Number: TARGET(AZ),NO CONTROL(TVP,MVP,MTM,MP,ACP,CBL,DZ,MLN,PSM,PMR,MOM,DMT),NO MIXTURE(PPB,TBF)
Notes: EcoReference No.: 113749
Chemical of Concern: AZ,TBF,PPB,TVP,MVP,MTM,MP,ACP,CBL,DZ,MLN,PSM,PMR,MOM,DMT

167. ---. Insecticide Resistance in Spotted Tentiform Leafminer (Lepidoptera: Gracillariidae): Mechanisms and Management. MOR,BCMTOP; 1990; 83, (3): 678-685.
Rec #: 950
Call Number: TARGET(AZ),NO CONTROL(TVP,MVP,MTM,MP,ACP,CBL,DZ,MLN,PSM,PMR,MOM,DMT),NO MIXTURE(PPB,TBF)
Notes: EcoReference No.: 113749
Chemical of Concern: AZ,TBF,PPB,TVP,MVP,MTM,MP,ACP,CBL,DZ,MLN,PSM,PMR,MOM,DMT

168. Pree, D. J. ; Archibald, D. E., and Cole, K. J. Insecticide resistance in spotted tentiform leafminer (Lepidoptera: Gracillariidae): Mechanisms and management. 1990; 83, (3): 678-685.
Rec #: 829
Keywords: NO TOX DATA
Notes: Chemical of Concern: MOM
Abstract: Abstract: Resistance to organophosphorous insecticides, pyrethroids, and methomyl occurred in populations of spotted tentiform leafminer, Phyllonorycter blancardella (F.), from southern Ontario. Resistance to organophosphorous insecticides occurred in all populations from commercial orchards. Resistance appeared to be due to an insensitive target acetylcholinesterase (AChE). Addition of several types of synergists to azinphosmethyl solutions did not affect toxicity. Resistance to methomyl appeared to be partially due to enhanced metabolism by aliesterases and partially to reduced inhibition of AChE. Selection for methomyl resistance was separate from resistance to organophosphorous insecticides. Increased activity of glutathione S-transferases was not implicated in resistance to either organophosphorous insecticides or methomyl. With current pest control practices, management of resistance to organophosphorous insecticides is not feasible in Ontario apple orchards.COPIED TO REJECT FILE

169. Rathman, R. J.; Johnson, M. W.; Rosenheim, J. A.; Tabashnik, B. E., and Purcell, M. Sexual Differences in Insecticide Susceptibility and Synergism with Piperonyl Butoxide in the Leafminer Parasitoid Diglyphus begini (Hymenoptera: Eulophidae). MORTOP,MIXTURE; 1992; 85, (1): 15-20.
Rec #: 440
Call Number: OK TARGET(MOM),NO MIXTURE,ENDPOINT(PPB)
Notes: EcoReference No.: 73710
Chemical of Concern: MOM,PPB

170. Refaei, A. F.; Hegazy, M. A.; Hussein, N. M., and El-Hamaky, M. A. Efficiency of Certain Insecticides, Insect Growth Inhibitors and Their Combinations Against the Cotton Leafworm Larvae in Cotton Plantations of Egypt. MOR,PHYORAL; 1990; 55, (2, Pt. B): 601-607.
Rec #: 970
Call Number: NO CONTROL,ENDPOINT(MTPN,TDC,CYF,DFZ)
Notes: EcoReference No.: 92313

Chemical of Concern: DFZ,MTPN,TDC,CYF

171. ---. Efficiency of Certain Insecticides, Insect Growth Inhibitors and Their Combinations Against the Cotton Leafworm Larvae in Cotton Plantations of Egypt. MOR,PHYORAL; 1990; 55, (2, Pt. B): 601-607.
Rec #: 970
Call Number: NO CONTROL,ENDPOINT(MTPN,TDC,CYF,DFZ)
Notes: EcoReference No.: 92313
Chemical of Concern: DFZ,MTPN,TDC,CYF

172. Reitz, S. R.; Kund, G. S.; Carson, W. G.; Phillips, P. A., and Trumble, J. T. Economics of Reducing Insecticide Use on Celery Through Low-Input Pest Management Strategies. 1999; 73, (3): 185-197.
Rec #: 12400
Keywords: MIXTURE
Notes: Chemical of Concern: MOM,PMR,SS,ABM,TUZ
Abstract: Agriculture Ecosystems & Environment/_/_Was EcoRef # 89904//

173. Rinkleff, J. H.; Hutchison, W. D.; Campbell, C. D.; Bolin, P. C., and Bartels, D. W. Insecticide Toxicity in European Corn Borer (Lepidoptera: Pyralidae): Ovicidal Activity and Residual Mortality to Neonates. MORENV,MIXTURE; 1995; 88, (2): 246-253.
Rec #: 570
Call Number: OK TARGET(MOM),TARGET(CYP)
Notes: EcoReference No.: 74109
Chemical of Concern: MOM,PMR,MP,TDL,ZCYP,LCYP

174. Ritter, W F . Pesticide contamination of ground water in the United States--a review. 1990 Feb; 25, (1): 1-29.
Rec #: 554
Keywords: NO SPECIES
Notes: Chemical of Concern: SZ,MTL,MOM,ADC
Abstract: Over 70 pesticides have been detected in ground water. Aldicarb and atrazine along with the soil fumigants EDB and DCP and DBCP have been the pesticides most frequently detected in ground water. Atrazine concentrations have been correlated with high nitrate concentrations. The triazine herbicides, simazine and cyanazine, have also been detected in ground water. The annual amount of recharge, soil type, depth of aquifer from the surface, nitrate contamination and soil pH are important field parameters in determining ground-water contamination potential by pesticides. Pesticide leaching is reduced by proper choice of crop rotation, increasing pesticide application efficiency, and integrated pest management. [Journal Article, Review, Review, Tutorial; 49 Refs; In English; United States]
http://www.sciencedirect.com/science/article/B6WVB-45CMCBV-1PV/2/63b4d37fc4e7a1b63d3ae68b0aa9d9ddCOPIED TO REJECT FILE

175. Rovesti, L. and Deseo, K. V. Compatibility of Chemical Pesticides with the Entomopathogenic Nematodes, Steinernema carpocapsae Weiser and S.feltiae Filipjev (Nematoda: Steinernematidae). BEH,PHYWATER,AQUA; 1990; 36, (2): 237-245.
Rec #: 1020
Call Number: NO ENDPOINT(DM,FMP,PPG,AMZ,AND,MOM,PRT,MTAS,DZ,PRN,PPHD,ES,PAQT,ACR,DOD,CYX,TFN,OXF,PHMD,LNR,PNB,DFZ),NO COC(CTN)
Notes: EcoReference No.: 70083
Chemical of Concern: DM,FMP,PPG,AMZ,AND,MOM,PRT,MTAS,DZ,PRN,PPHD,ES,PAQT,ACR,DOD,CYX,TFN,OXF,PHMD,LNR,PNB,DFZ

176. ---. Compatibility of Chemical Pesticides with the Entomopathogenic Nematodes, Steinernema carpocapsae Weiser and S.feltiae Filipjev (Nematoda: Steinernematidae). BEH,PHYWATER,AQUA; 1990; 36, (2): 237-245.
Rec #: 1020

Call Number: NO
ENDPOINT(DM,FMP,PPG,AMZ,AND,MOM,PRT,MTAS,DZ,PRN,PPHD,ES,PAQT,ACR,DOD,CYX,TFN,OXF,PHMD,LNR,PNB,DFZ),NO COC(CTN)
Notes: EcoReference No.: 70083
Chemical of Concern:
DM,FMP,PPG,AMZ,AND,MOM,PRT,MTAS,DZ,PRN,PPHD,ES,PAQT,ACR,DOD,CYX,TFN,OXF,PHMD,LNR,PNB,DFZ

177. Rowland, S. and Cartwright, B. Control of Cabbage Pests, Summer, 1993. POP,GROSOIL,ENV,MIXTURE; 1994; 19, 68-69 (18E).
Rec #: 1370
Call Number: LITE EVAL CODED(ES,PMR),NO COC(DKGNa),OK(CYP,CYH),TARGET(TDC,BFT)
Notes: EcoReference No.: 82736
Chemical of Concern: PMR,BFT,CYP,ES,LCYT,CYH,TDC

178. ---. Harlequin Bug Control on Cabbage, Spring, 1992. POPENV,MIXTURE; 1993; 18, 109-110 (25E).
Rec #: 1360
Call Number: TARGET(PMR,BFT,TDC,CYP)
Notes: EcoReference No.: 92337
Chemical of Concern: LCYT,PMR,BFT,TDC,CYP

179. Salama, H. S.; Foda, M. S.; Zaki, F. N., and Moawad, S. Potency of Combinations of Bacillus thuringiensis and Chemical Insecticides on Spodoptera littoralis (Lepidoptera: Noctuidae). MORORAL,MIXTURE; 1984; 77, (4): 885-890.
Rec #: 290
Call Number: OK TARGET(DMT,CYP,CBL),TARGET(MOM)
Notes: EcoReference No.: 74456
Chemical of Concern: MOM,CBL,FNV,DMT,PMR,PFF,CYP,DFZ

180. Salama, H. S. and Moawed, S. M. Joint Action of Nuclear Polyhedrosis Virus and Chemical Insecticides Against the Black Cutworm, Agrotis ipsilon (Hufn.). MORORAL,MIXTURE; 1988; 39, (1): 99-107.
Rec #: 490
Call Number: OK TARGET(MOM),TARGET(CYP)
Notes: EcoReference No.: 74120
Chemical of Concern: DCM,FNV,CYP,MOM

181. Schwartz, H. F.; Gent, D. H.; Fichtner, S. M.; Hammon, R.; Cranshaw, W. S.; Mahaffey, L.; Camper, M.; Otto, K., and McMillan, M. Straw Mulch and Reduced-Risk Pesticide Impacts on Thrips and Iris Yellow Spot Virus on Western-Grown Onions. 2009; 34 , (1): 13-29.
Rec #: 310
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: Abstract: Iris yellow spot virus and its vector the onion thrips, Thrips tabaci Lindeman, are yield-limiting pests of onion, Allium cepa L, throughout the western U.S. In experiments in Colorado during 2005 to 2007, straw mulch applied to the center of onion beds at the early to mid-bulb growth stage reduced abundance of thrips as much as 33% when compared to nontreated plots of transplanted onions. Cumulative thrips-days indicated that straw mulch significantly reduced season-long abundance by 10 to 20% compared with check plots in bare soil. The addition of conventional insecticides (methomyl alternated with lambda-cyhalothrin) was associated with 12 to 27% greater cumulative thrips-days compared to the nontreated check in two experiments. In contrast, a reduced-risk insecticide program (spinosad alternated with azadirachtin) had fewer cumulative thrips-days on both bare soil (15%) and straw mulch (36%) compared to nontreated checks. Enhanced thrips control generally persisted during mid-season and may have contributed to reduced stress from damage by thrips feeding and reduced incidence and/or severity by Iris yellow spot virus during the

early to mid-bulb stages of plant growth. Total yield and yield of jumbo-sized onions were increased as much as 13 and 18% by straw mulch compared to bare soil treatments among the individual experiments. Peak abundance of thrips on commercial red onion plants evaluated during 2004 was positively correlated with the incidence of iris yellow spot 40 days (R ² = 0.5864, P = 0.0060) and 54 days (R² = 0.6086, P = 0.0046) later, indicating that suppressing thrips might provide some control of the disease. Effective long- term management of thrips and iris yellow spot in onion crop systems will depend on a multi-faceted approach that integrates host resistance, modified cultural practices such as straw mulching and irrigation scheduling, and judicious use of reduced-risk insecticides.
53 refs.
English
Publication Type: Journal
Publication Type: Article
Country of Publication: United States
Classification: 92.10.4.3 CROP SCIENCE: Crop Protection: Pests
Classification: 92.10.4.4 CROP SCIENCE: Crop Protection: Bacteria and viruses
Classification: 92.11.1 PLANT PATHOLOGY AND SYMBIOSES: Plant Pathology
Subfile: Plant Science English

182. Scott, J. G. and Georghiou, G. P. Mechanisms Responsible for High Levels of Permethrin Resistance in the House Fly. MOR,ACC,BCMTOP,MIXTURE; 1986; 17, (3): 195-206.
Rec #: 1430
Call Number: NO MIXTURE(TBF,PPB),TARGET(FNV,CYF,SMT,PMR,DMT,MOM,Naled,FVL,BRSM,ATN,DM,DDVP,BFT)
Notes: EcoReference No.: 93115
Chemical of Concern: PPB,TBF,Naled,MOM,DMT,FVL,ATN,PMR,SMT,CYF,BRSM,BFT,FNV,CYH,DM,FYT,AND,DDT,DDVP,AV

183. Seal, D. R. and Jansson, R. K. Insect Control in Sweet Corn, 1991. POPENV; 1994; 19, 96 (ABS.No.49E).
Rec #: 450
Call Number: NO MIXTURE(DKGNa),OK TARGET(PRN,MOM,TUZ)
Notes: EcoReference No.: 82729
Chemical of Concern: DKGNa,PRN,MOM,TUZ

184. Sellers Brent A.; Ferrell Jason A.; MacDonald Gregory E., and Kline William N. Dogfennel (Eupatorium Capillifolium) Size at Application Affects Herbicide Efficacy. 2009.
Rec #: 200
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: Descriptors: Eupatorium
Descriptors: Eupatorium capillifolium
Descriptors: Eupatorium compositifolium
Abstract: Dogfennel is one of the most problematic weeds in Florida pasturelands and its control can become inconsistent as the plant matures. A premix of triclopyr + fluroxypyr has been recently introduced for weed control in pastures and rangeland; however, little published information exists concerning the control of dogfennel in pastures with this herbicide combination. Therefore, experiments were initiated **to determine the efficacy of triclopyr + fluroxypyr compared with commonly used pasture herbicides** on dogfennel at three heights. All herbicides utilized in this study are commonly used for dogfennel control. Dogfennel control was affected by both herbicide treatment and dogfennel height. In general, 0.80 + 0.28 kg ai/ha of 2,4-D amine + dicamba resulted in inconsistent control, especially as dogfennel plants increased in size. Increasing the rate of 2,4-D amine + dicamba to 1.21 + 0.42 kg/ha increased the consistency. Triclopyr + fluroxypyr provided similar levels of control as that of 1.21 + 0.42 kg/ha 2,4-D amine + dicamba. In all locations, control of 154-cm dogfennel was signficanatly lower than that of 38-cm dogfennel. These data indicate that

triclopyr + fluroxypyr is an effective option for dogfennel control, but dogfennel height at the time of application is an important factor for optimizing control. Nomenclature: 2,4-D Amine; dicamba; fluroxypyr; triclopyr; Dogfennel, Eupatorium capillifolium L.
Publication Type: Journal
Publication Type: Article
10 refs.
Country of Publication: United States
Subfile: Plant Science; CABS
English
DOI: 10.1614/WT-08-104.1
Classification: CABSCLASS
Classification: 92.10.4.1, PLANT SCIENCE
Classification: CROP SCIENCE
Classification: Crop Protection
Classification: Weeds English

185. Selmeci-Antal, M.; Barta-Bedo, M.; Constantinovits, G.; Nagy, K., and Szepvolgyi, J. Nutritional Toxicological Studies with Lannate: Interactions with Caffeine and Ethanol. GRO,BCM,CELORAL,MIXTURE; 1980; Suppl.4, 443-445.
Rec #: 300
Call Number: NO ENDPOINT(MOM)
Notes: EcoReference No.: 75289
Chemical of Concern: MOM

186. Shafiqur Rahman, A. S. M. and Wilkins, R. M. Environmental Interactions of Pesticides: Synergism of Methomyl by Simazine Against the House Fly, Musca domestica L. MORTOP,MIXTURE; 2001; 26, (1): 91-95.
Rec #: 60
Call Number: LITE EVAL CODED(PPB,SZ),OK(ALL CHEMS),TARGET(MOM)
Notes: EcoReference No.: 71371
Chemical of Concern: SZ,MOM,PPB

187. Shamiyeh, N. B.; Mullins, C. A.; Southards, C. J.; Straw, R. A., and Roberts, C. H. Control of Major Insect Pests of Cole Crops in Tennessee: 1988-1991. POP,GROSOIL,ENV,MIXTURE; 1993; 165, 37-42.
Rec #: 1440
Call Number: LITE EVAL CODED(PMR),NO MIXTURE(CBL),EFFICACY(EFV,ACP,FPP),CROP(MOM)
Notes: EcoReference No.: 106450
Chemical of Concern: EFV,ACP,PMR,MOM,FPP,CBL,LCYT

188. Shono, T. and Scott, J. G. Spinosad Resistance in the Housefly, Musca domestica, is due to a Recessive Factor on Autosome 1. MORTOP,ENV; 2003; 75, 1-7.
Rec #: 1120
Call Number: NO MIXTURE(TBF,PPB),NO CONTROL(MOM,DMT,CYF,FPN)
Notes: EcoReference No.: 92445
Chemical of Concern: MOM,ABM,DMT,CYF,SS,PPB,TBF,DLD,FPN

189. ---. Spinosad Resistance in the Housefly, Musca domestica, is due to a Recessive Factor on Autosome 1. MORTOP,ENV; 2003; 75, 1-7.
Rec #: 1120
Call Number: NO MIXTURE(TBF,PPB),NO CONTROL(MOM,DMT,CYF,FPN)
Notes: EcoReference No.: 92445
Chemical of Concern: MOM,ABM,DMT,CYF,SS,PPB,TBF,DLD,FPN

190. Singh A.K.; Srivastava C.P.; Joshi Nitin, and Joshi Nitin . Evaluation of Integrated Pest Management Modules

Against Gram Pod Borer in Chickpea (Cicer Arietinum). 2009.
Rec #: 340
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: Descriptors: Aves
Descriptors: Cicer arietinum
Descriptors: Helicoverpa armigera
Abstract: Field experiments were conducted during winter (rabi) 2003-04 and 2004-05 to evaluate the effectiveness of integrated pest management (IPM) modules against gram pod borer, [Helicoverpa armigera (HuĔ □ibner)], on chick
2 years on 'BG 256' chickpea in Mirzapur district, Uttar Pradesh, module M5 (sole crop of chickpea, pheromone traps @ 20/ha, bird perches @ 20/ha, endosulfan 35 EC @ 0.07% a.i. and chlorpyriphos @ 0.05% a.i.), followed by M2 (sole crop of chickpea, pheromone traps @ 20/ha, bird perches @ 20/ ha, methomyl 40 SP @ 1.0 kg/ha of formulated insecticide and 2 sprays of HaNPV @ 400 LE/ha) were found effective in managing the population of H. armigera. On an average, the grain yields were higher in M5 (1 382 kg/ha), followed by M 2 (1 196 kg/ha) in comparison to the other modules including farmers' practice. The highest cost : benefit (C : B) ratio was obtained in M 5 (1:5.09), followed by M4 (1:2.2). Though, least population of natural enemies was recorded in M5, the module proved superior to other modules in respect of managing pest population and C:B ratio and hence could be utilized by farmers.
Publication Type: Journal
Publication Type: Article
11 refs.
Country of Publication: India
Subfile: Plant Science; CABS
English
Classification: CABSCLASS
Classification: 92.10.4.6, PLANT SCIENCE
Classification: CROP SCIENCE
Classification: Crop Protection
Classification: Integrated pest management English

191. Singh, O. P.; Singh, K. J., and Kapoor, K. N. Seasonal Incidence and Chemical Control of Red Spider Mite, Tetranychus telarius Linn. on Soybean in Madhya Pradesh, India. MORENV; 1990; 52, (1): 57-62.
Rec #: 1470
Call Number: TARGET(DMT,FNT,TDC,DEM,DM,PHSL,CYP,PMR,FNV,DZ,EFV)
Notes: EcoReference No.: 89918
Chemical of Concern: DMT,FNT,TDC,DEM,DM,PHSL,CYP,PMR,FNV,DZ,EFV

192. Slobodnik, J.; Oztezkizan, O.; Lingeman, H., and Brinkman, U. At. Solid-phase extraction of polar pesticides from environmental water samples on graphitized carbon and Empore-activated carbon disks and on-line coupling to octadecyl-bonded silica analytical columns. 1996; 750 , (1-2): 227-238.
Rec #: 2025
Keywords: CHEM METHODS
Notes: Chemical of Concern: MOM,ADC
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. The suitability of Empore-activated carbon disks (EACD), Envi-Carb graphitized carbon black (GCB) and CPP-50 graphitized carbon for the trace enrichment of polar pesticides from water samples was studied by means of off-line and on-line solid-phase extraction (SPE). In the off-line procedure, 0.5-2 1 samples spiked with a test mixture of oxamyl, methomyl and aldicarb sulfoxide were enriched on EnviCarb SPE cartridges or 47 mm diameter EACD and eluted with dichloromethane-methanol. After evaporation, a sample was injected onto a C18-bonded silica column and analysed by liquid chromatography with ultraviolet (LC-UV) detection. EACD performed better than EnviCarb cartridges in terms of breakthrough volumes (> 21 for all test analytes), reproducibility (R.S.D. of recoveries, 4-8%, n=3) and sampling speed (100 ml/min); detection limits in drinking water were 0.05-0.16 mug/l. In the on-line experiments, 4.6 mm diameter pieces cut from original EACD and stacked onto each oth

KEYWORDS: Biochemical Methods-General
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biophysics-General Biophysical Techniques
KEYWORDS: Toxicology-General
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-AirCOPIED TO REJECT FILE

193. Smitley, D. R. and Davis, T. W. Eastern Tent Caterpillar Control on Cherry Trees, 1994. POPENV; 1995; 20, 293-294 (41G).
Rec #: 1490
Call Number: TARGET(TDC,AZD),NO MIXTURE(TUZ)
Notes: EcoReference No.: 89062
Chemical of Concern: TDC,TUZ,AZD

194. Solomon, K. R.; MacDonald, S.; Surgeoner, G., and Harris, C. R. Housefly Resistance to Pyrethroids. 1990; 17, (4): 146-152.
Rec #: 890
Keywords: REVIEW
Call Number: NO REVIEW(RSM,CYP,DZ,DDT,PYT,MOM,ADC,CBF,PPB,DMT)
Notes: EcoReference No.: 70455
Chemical of Concern: RSM,CYP,DZ,DDT,PYT,MOM,ADC,CBF,PPB,DMT

195. ---. Housefly Resistance to Pyrethroids. 1990; 17, (4): 146-152.
Rec #: 14380
Keywords: REVIEW
Notes: Chemical of Concern: RSM,CYP,DZ,DDT,PYT,MOM,ADC,CBF,PPB,DMT
Abstract: Genetics and barn surveys//

196. Spangler, S. M.; Grove, T.; Rebarchak, P., and Calvin, D. Control of Ear-Infesting Insects on Sweet Corn, 1996. POPSOIL,ENV,MIXTURE; 1997; 22, 125-126 (47E).
Rec #: 1510
Call Number: LITE EVAL CODED(PMR),TARGET(BFT,TDC,CYF,CYP)
Notes: EcoReference No.: 91338
Chemical of Concern: CYP,LCYT,PMR,BFT,TDC,CYF

197. Spooner, J. ; Wyatt, L.; Brichford, S. L.; Lanier, A. L.; Coffey, S. W., and Smolen, M. D. NONPOINT SOURCES. 1990; 62 , (4): 537-546.
Rec #: 18800
Keywords: SURVEY
Notes: Chemical of Concern: SZ,MOM,CBF,ADC,24DXY
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM REVIEW WASTE MANAGEMENT INDUSTRY WATER POLLUTION CONTROL WATER QUALITY BEST MANAGEMENT PRACTICES MODELING METHODS MONITORING METHODS ECONOMIC IMPLICATIONS
KEYWORDS: General Biology-Information
KEYWORDS: Methods
KEYWORDS: Ecology
KEYWORDS: Public Health: Environmental Health-Sewage Disposal and Sanitary Measures
KEYWORDS: Public Health: Environmental Health-AirCOPIED TO REJECT FILE

198. Stansly, P. A.; Conner, J. M., and Pomerinke, M. A. Impact of Biorational Insecticides on Southern Armyworm and Beet Armyworm in Bell Pepper, 1997. POPENV; 1999; 24, 149-150 (E62).
Rec #: 280
Call Number: NO ENDPOINT(ALL CHEMS),TARGET(MOM),NO MIXTURE(MB,TARGET-CLP)
Notes: EcoReference No.: 88268

Chemical of Concern: TUZ,MOM,CLP,MB

199. Stimmann, M. W. and Ferguson, M. P. Potential Pesticide Use Cancellations in California. 1990; 44, (4): 12-16.
Rec #: 900
Keywords: NO TOX DATA
Call Number: NO TOX DATA(CLP,PAQT,MLN,CBF,DU,PRT,Naled,MOM,MDT,ETN,ES,DMT,DZ,CPY,AZ,PPHD,PSM,PMR,PRN,CYP,ACP,TFN,ODZ,LNR,ATZ,ACR,TPM,SZ,PMT,Captan,CTN,Folpet,MZB,Maneb,MEM,Zineb,DDVP,HCCH,BMY,DINO,PNB,TBA,24DXY,MFD,MTL,OYZ)
Notes: Chemical of Concern: CLP,PAQT,MLN,CBF,DU,PRT,Naled,MOM,MDT,ETN,ES,DMT,DZ,CPY,AZ,PPHD,PSM,PMR,PRN,CYP,ACP,TFN,ODZ,LNR,ATZ,ACR,TPM,SZ,PMT,Captan,CTN,Folpet,MZB,Maneb,MEM,Zineb,DDVP,HCCH,BMY,DINO,PNB,TBA,24DXY,MFD,MTL,OYZ

200. ---. Potential Pesticide Use Cancellations in California. 1990; 44, (4): 12-16.
Rec #: 14990
Keywords: NO TOX DATA
Notes: Chemical of Concern: CLP,PAQT,MLN,CBF,DU,PRT,Naled,MOM,MDT,ETN,ES,DMT,DZ,CPY,AZ,PPHD,PSM,PMR,PRN,CYP,ACP,TFN,ODZ,LNR,ATZ,ACR,TPM,SZ,PMT,Captan,CTN,Folpet,MZB,Maneb,MEM,Zineb,DDVP,HCCH,BMY,DINO,PNB,TBA,24DXY,MFD,MTL,OYZ
Abstract: Calif agric//

201. Stimmann, M. W. and Ferguson, M. P. PROGRESS REPORT VICE PRESIDENT'S TASK FORCE ON PEST CONTROL ALTERNATIVES POTENTIAL PESTICIDE USE CANCELLATIONS IN CALIFORNIA USA. 1990; 44 , (4): 12-16.
Rec #: 18140
Keywords: NO TOX DATA
Notes: Chemical of Concern: SZ,RSM,PNB,MTL,MOM,ADC,DCNA,DMT,WFN,ETO,RTN,MAL,CYP
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM FARMING INDUSTRY CROP INDUSTRY AGRICHEMICAL BAN LEGISLATION GOVERNMENT REGULATION SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 FEDERAL INSECTICIDE FUNGICIDE AND RODENTICIDE ACT ENVIRONMENTAL PROTECTION ACT OF
KEYWORDS: General Biology-Institutions
KEYWORDS: Biochemical Studies-General
KEYWORDS: Agronomy-General
KEYWORDS: Pest Control
KEYWORDS: Economic Entomology-GeneralCOPIED TO REJECT FILE

202. Stocker, R. K.; Miller, J. r. RE; Black, D. W.; Ferriter, A. P., and Thayer, D. D. Using Fire and Herbicide to Control Lygodium Microphyllum and Effects on a Pine Flatwoods Plant Community in South Florida. 2008; 28 , (2): 144-154.
Rec #: 490
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: Descriptors: Fire
Descriptors: Herbicide
Descriptors: Invasive plant
Descriptors: Lygodium microphyllum
Descriptors: Old World climbing fern
Abstract: Lygodium microphyllum (Cav.) R. Br. is a non-native invasive fern that has become a serious problem in many habitats in southern Florida. The effectiveness of fire and/or triclopyr ester in killing L. microphyllum, the time and amount of herbicide required for inspections and re-applications, and the effects of these treatments on a southern Florida pine flatwoods community

were examined. These treatments were: (1) herbicide application with bimonthly inspection and re-application if necessary, (2) herbicide application with biannual inspection/re-application, (3) prescribed fire to reduce L. microphyllum biomass followed by biannual inspection and herbicide application, and (4) untreated controls. All fire and/or herbicide treatments killed standing L. microphyllum, and the prescribed fire reduced by about one-half the amount of subsequent herbicide, but not the time, required to kill regrowth. No treatment prevented L. microphyllum regrowth, and every treatment had at least one new frond at the end of the three-year study. Fire and/or herbicide treatments did not permanently decrease native species cover, richness, evenness, or diversity (Shannon's H'), and native species cover increased following biannual herbicide and fire/biannual herbicide treatments. Two-month inspection/retreatment intervals were not more effective than six-month intervals. Lygodium microphyllum can return to former amounts of biomass and cover within a few years of burning. Waiting too long to inspect and retreat negates the benefits of using fire to reduce L. microphyllum biomass.
32 refs.
English
Publication Type: Journal
Publication Type: Article
Country of Publication: United States
Classification: 92.10.4.1 CROP SCIENCE: Crop Protection: Weeds
Classification: 92.13.1.3 ENVIRONMENTAL BIOLOGY: Ecology: Community structure and processes
Classification: 92.14.4 DIVERSITY: Bryophytes and Pteridophytes
Subfile: Plant Science English

203. Sumner, D. R.; Dowler, C. C.; Johnson, A. W.; Chalfant, R. B.; Glaze, N. C.; Phatak, S. C., and Epperson, J. E. Effect of Root Diseases and Nematodes on Yield of Corn Zea mays in an Irrigated Multiple-Cropping System with Pest Management. 1985; 69, (5): 382-387.
Rec #: 910
Keywords: MIXTURE
Call Number: NO MIXTURE(CLP,CBF,MB,MITC,MOM)
Notes: Chemical of Concern: CLP,CBF,MB,MITC,MOM

204. ---. Effect of Root Diseases and Nematodes on Yield of Corn Zea Mays in an Irrigated Multiple-Cropping System With Pest Management. 1985; 69, (5): 382-387.
Rec #: 15180
Keywords: MIXTURE
Notes: Chemical of Concern: CLP,CBF,MB,MITC,MOM

205. 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 #: 1580
Call Number: TARGET(FNV,CBF,DM,PPX,MOM,CBL,PMR,MLN),OK(MP),NO COC(TBF)
Notes: EcoReference No.: 92971
Chemical of Concern: MOM,CBL,CBF,FNV,PMR,PPX,MP,MLN,DM

206. Tetreault, G. E. Metabolism of Carbaryl, Chlorpyrifos, DDT, and Parathion in the European Corn Borer: Effects of Microsporidiosis on Toxicity and Detoxication. BCM,MOR,GRO,ACC. G.E.Tetreault, Univ. Illinois, Urbana, IL, USA: TOP,MIXTURE; 1985: 86 p.
Rec #: 720
Call Number: OK(ALL CHEMS),OK TARGET(CBL,MOM,DZ))
Notes: EcoReference No.: 87626
Chemical of Concern: CBL,CBF,CPY,DDT,DZ,FNF,MOM,PRN,PMR,TBO

207. Torres-Vila, L. M.; Rodriguez-Molina, M. C., and Lacasa-Plasencia, A. Testing Ipm Protocols for Helicoverpa Armigera in Processing Tomato: Egg-Count- Vs. Fruit-Count-Based Damage Thresholds Using Bt or Chemical Insecticides. 2003; 22, (8): 1045-1052.

Rec #: 15640
Keywords: MIXTURE
Notes: Chemical of Concern: MOM,ES,CPY,BFT
Abstract: Crop Protection//Was EcoRef # 82250//L.M. Torres-Vila, Servicio de Sanidad Vegetal, Consejeria Agric. y Medio Ambiente, Avda. de Portugal s/n, E-06800 Merida, Badajoz, Spain//

208. ---. Testing IPM Protocols for Helicoverpa armigera in Processing Tomato: Egg-Count- vs. Fruit-Count-Based Damage Thresholds Using Bt or Chemical Insecticides. L.M. Torres-Vila, Servicio de Sanidad Vegetal, Consejeria Agric. y Medio Ambiente, Avda. de Portugal s/n, E-06800 Merida, Badajoz, Spain: 2003; 22, (8): 1045-1052.
Rec #: 440
Keywords: MIXTURE
Call Number: NO MIXTURE(ALL CHEMS)
Notes: Chemical of Concern: MOM,ES,CPY,BFT

209. Trimble, R. M.; Pree, D. J., and Vickers, P. M. Survey for insecticide resistance in some Ontario (Canada) populations of the apple leafminer parasite, Pholetesor ornigis (Weed) (Hymenoptera: Braconidae). 1990; 122 , (9-10): 969-974.
Rec #: 1416
Keywords: SURVEY
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. Pholetesor ornigis (Weed) from 16 orchards in seven Ontario apple production areas were tested from 1987 to 1989 to determine if their levels of resistance to permethrin and methomyl were higher than those measured earlier in two Ontario populations and if they had developed resistance to azinphosmethyl. Higher levels of resistance were not detected and there was no evidence of resistance to azinphosmethyl. Some possible reasons for the lack of higher levels of insecticide resistance and some alternatives to insecticide resistance for parasite conservation are discussed.
KEYWORDS: General Biology-Conservation
KEYWORDS: Biochemical Studies-General
KEYWORDS: Toxicology-General
KEYWORDS: Horticulture-Temperate Zone Fruits and Nuts
KEYWORDS: Pest Control
KEYWORDS: Economic Entomology-Fruits and Nuts
KEYWORDS: Economic Entomology-Biological Control
KEYWORDS: Economic Entomology-Integrated Control
KEYWORDS: Parasitology-General
KEYWORDS: Invertebrata
KEYWORDS: Rosaceae
KEYWORDS: HymenopteraCOPIED TO REJECT FILE

210. Trimble, R. M.; Pree, D. J., and Vickers, P. M. Survey for Insecticide Resistance in Some Ontario Populations of the Apple Leafminer Parasite, Pholetesor ornigis (Weed) (Hymenoptera: Braconidae). MORSOIL,ENV; 1990; 122, (9/10): 969-973.
Rec #: 1190
Call Number: NO CONTROL(AZ,MOM,PMR)
Notes: EcoReference No.: 99797
Chemical of Concern: AZ,MOM,PMR

211. ---. Survey for Insecticide Resistance in Some Ontario Populations of the Apple Leafminer Parasite, Pholetesor ornigis (Weed) (Hymenoptera: Braconidae). MORSOIL,ENV; 1990; 122, (9/10): 969-973.
Rec #: 1190
Call Number: NO CONTROL(AZ,MOM,PMR)
Notes: EcoReference No.: 99797
Chemical of Concern: AZ,MOM,PMR

212. Trumble, J. T.; Carson, W. G., and White, K. K. Economic Analysis of a Bacillus Thuringiensis-Based Integrated Pest-Management Program in Fresh-Market Tomatoes. 1994; 87, (6): 1463-1469.
Rec #: 15760
Keywords: MIXTURE
Notes: Chemical of Concern: MOM,PMR
Abstract: Journal Title: Journal of Economic Entomology//

213. Tse-Seng, C.; Kaben, A. M., and Thye-San, C. Proper Adjuvant Selection to Enhance the Activity of Triclopyr Combined With Metsulfuron on the Control of Hedyotis Verticillata. 2009; 9 , (2): 179-184.
Rec #: 320
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: Descriptors: Crop oil concentrate
Descriptors: Non-ionic surfactant
Descriptors: Organosilicon
Descriptors: Tank mixture
Abstract: A study was conducted to evaluate the combined activity of a tank mixture of triclopyr plus metsulfuron with non-ionic surfactant (NIS), crop oil concentrate (COC), and organosilicon (OS) adjuvants on the control of Hedyotis verticillata under glasshouse and field conditions. The results of both the glasshouse and field experiments showed that 160 g ai ha⁻¹ triclopyr plus 0.2 g ai ha⁻¹ metsulfuron and 320 g ai ha⁻¹ triclopyr plus 0.4 g ai ha⁻¹ metsulfuron, with the addition of 0.25% NIS, 0.05% COC, or 0.05% OS, were effective in controlling H. verticillata. A comparison of the cost revealed that the most cost-effective combination for controlling H. verticillata is 160 g ai ha⁻¹ triclopyr plus 0.2 g ai ha⁻¹ metsulfuron combined with 0.25% NIS. (copyright) 2009 Weed Science Society of Japan.
16 refs.
English
Publication Type: Journal
Publication Type: Article
Country of Publication: Australia
Classification: 92.10.4.1 CROP SCIENCE: Crop Protection: Weeds
Subfile: Plant Science English

214. Van Emon Jm and Mumma, R. O. ACS AMERICAN CHEMICAL SOCIETY SYMPOSIUM SERIES NO. 442 IMMUNOCHEMICAL METHODS FOR ENVIRONMENTAL ANALYSIS 198TH NATIONAL MEETING MIAMI BEACH FLORIDA USA SEPTEMBER 10-15 1989. 1990; 198th National Meeting, Miami Beach, Florida, Usa, September 10-15, 1989. X+229p. American Chemical Society: Washington, D.c., Usa. Illus. Isbn 0-8412-1875-7.; 0 , (0): X+229p.
Rec #: 18680
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: SZ,MTL,MOM,MLT,ADC,CBF
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM BOOK HUMAN FOOD CONTAMINANTS ENVIRONMENTAL CONTAMINANTS ENVIRONMENTAL TOXINS
KEYWORDS: Biochemical Methods-General
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biochemical Studies-Proteins
KEYWORDS: Biophysics-Molecular Properties and Macromolecules
KEYWORDS: Food Technology-General
KEYWORDS: Toxicology-Foods
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Immunology and Immunochemistry-General
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: HominidaeCOPIED TO REJECT FILE

215. Van Steenwyk, R. A.; Toscano, N. C.; Ballmer, G. R.; Kido, K., and Reynolds, H. T. Increases of Heliothis spp.

in Cotton Under Various Insecticide Treatment Regimes. 1975; 4, 993-996.
Rec #: 980
Keywords: MIXTURE
Call Number: NO MIXTURE(AZ,DCTP,MOM,MP)
Notes: Chemical of Concern: AZ,DCTP,MOM,MP

216. ---. Increases of Heliothis Spp. In Cotton Under Various Insecticide Treatment Regimes. 1975; 4, 993-996.
Rec #: 16000
Keywords: MIXTURE
Notes: Chemical of Concern: AZ,DCTP,MOM,MP

217. Wagner, S. L. PESTICIDE ILLNESS SURVEILLANCE REVIEW OF THE NATIONAL PESTICIDE HAZARD ASSESSMENT PROGRAM. 1990; Des Moines, Iowa, Usa, September 17-30, 1988. Am J Ind Med; 18 , (3): 307-312.
Rec #: 1406
Keywords: HUMAN HEALTH
Notes: Chemical of Concern: MOM,CBF,ADC,CYP,DMB
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM HUMAN NATIONAL PESTICIDE TELECOMMUNICATIONS NETWORK EPA TOXICITY
KEYWORDS: General Biology-Institutions
KEYWORDS: General Biology-Symposia
KEYWORDS: Pathology
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health-Public Health Administration and Statistics
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Public Health: Epidemiology-Organic Diseases and Neoplasms
KEYWORDS: Pest Control
KEYWORDS: HominidaeCOPIED TO REJECT FILE

218. 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; 1990; 83, (3): 985-994.
Rec #: 1720
Call Number: LITE EVAL
CODED(PMR),OK(ES,CPY),TARGET(DFZ,EFV,MOM,OML,AZ,FTT),NO CONC(PSM,PRN,CBL,ETN,MP)
Notes: EcoReference No.: 113458
Chemical of Concern: PSM,PRN,CBL,ETN,MP,DFZ,EFV,PMR,ES,MOM,OML,CPY,AZ,FTT

219. Wang, W.; Mo, J.; Cheng, J.; Zhuang, P., and Tang, Z. Selection and Characterization of Spinosad Resistance in Spodoptera exigua (Hubner) (Lepidoptera: Noctuidae). MORTOP; 2006; 84, 180-187.
Rec #: 1270
Call Number: NO CONTROL(MOM,FNV,CYF),NO MIXTURE(PPB,TBF)
Notes: EcoReference No.: 92444
Chemical of Concern: PPB,TBF,ABM,MOM,SS,FNV,CYF

220. ---. Selection and Characterization of Spinosad Resistance in Spodoptera exigua (Hubner) (Lepidoptera: Noctuidae). MORTOP; 2006; 84, 180-187.
Rec #: 1270
Call Number: NO CONTROL(MOM,FNV,CYF),NO MIXTURE(PPB,TBF)
Notes: EcoReference No.: 92444
Chemical of Concern: PPB,TBF,ABM,MOM,SS,FNV,CYF

221. Weaver, J. E.; Hogmire, H. W.; Brooks, J. L., and Sencindiver, J. C. Assessment of pesticide residues in surface and soil water from a commercial apple orchard. 1990; 5 , (1): 37-43.
Rec #: 1344

Keywords: NO SPECIES
Notes: Chemical of Concern: MOM,DMT
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. Soil water in the vadose zone and surface runoff water in a commercial apple orchard in an upland area of West Virginia (USA) were assessed for residues of pesticides normally applied for control of diseases, arthropod pests, and vole control. Water in the vadose zone was sampled at depths of 6, 12, 24, and 36 in. (0.15, 0.3, 0.6, and 0.9 m) with suction lysimeters from early spring to midfall for two consecutive years. Endrin was the only pesticide detected; it had been applied to the study site five times during the period of 1974 to 1981. None of the 17 pesticides applied under an Integrated Orchard Management program during this study were detected in water samples. Concentrations of endrin in soil water ranged from 0.1 to 13.2 ppb (mug). About 20% of all soil water samples within the orchard tested positive (\ 0.1 ppb) for this pesticide. Endrin was detected at all depths; however, the frequency of positive samples and levels of residues tended to decrease with dep
KEYWORDS: General Biology-Conservation
KEYWORDS: Biochemical Studies-General
KEYWORDS: Soil Science-Physics and Chemistry (1970-)
KEYWORDS: Soil Science-Fertility and Applied Studies (1970-)
KEYWORDS: Horticulture-Temperate Zone Fruits and Nuts
KEYWORDS: Pest Control
KEYWORDS: RosaceaeCOPIED TO REJECT FILE

222. Whalen, J. and Spellman, M. Control of Fall Armyworm on Whorl Stage Corn, 1991. POPENV; 1992; 17, 111-112 (49E).
Rec #: 1760
Call Number: NO MIXTURE(EFV),TARGET(TDC)
Notes: EcoReference No.: 92330
Chemical of Concern: TDC,EFV

223. White, D. H.; Seginak, J. T., and Simpson, R. C. Survival of Northern Bobwhites in Georgia: Cropland Use and Pesticides. 1990; 44, (1): 73-80.
Rec #: 1010
Keywords: MIXTURE
Call Number: NO MIXTURE(MOM)
Notes: Chemical of Concern: MOM

224. ---. Survival of Northern Bobwhites in Georgia: Cropland Use and Pesticides. 1990; 44, (1): 73-80.
Rec #: 16580
Keywords: MIXTURE
Notes: Chemical of Concern: MOM

225. ---. SURVIVAL OF NORTHERN BOBWHITES IN GEORGIA USA CROPLAND USE AND PESTICIDES. 1990; 44 , (1): 73-80.
Rec #: 1347
Keywords: MIXTURE
Notes: Chemical of Concern: MOM
Abstract: ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM COLINUS-VIRGINIANUS BIRD POPULATION DYNAMICS ORGANOPHOSPHORUS CARBAMATE PESTICIDE TOXICITY
KEYWORDS: Ecology
KEYWORDS: Biochemical Studies-General
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Public Health: Environmental Health-Air
KEYWORDS: Pest Control
KEYWORDS: GalliformesCOPIED TO REJECT FILE

226. Wier, A. T.; Mink, J. S.; Thomas, J. D., and Boethel, D. J. Control of Southern Green Stink Bug on Soybean,

1991. POPSOIL,ENV,MIXTURE; 1992; 17, 280-281.
Rec #: 1850
Call Number: OK(CYH),TARGET(EFV,CYF,ACP,TDC,TLM)
Notes: EcoReference No.: 79265
Chemical of Concern: CYH,CYF,ACP,TDC,EFV,TLM

227. Winters, S. and Cartwright, B. Control of Lepidopterous Larvae on Cabbage, Summer, 1990. POPENV,MIXTURE; 1991; 16, 65-66 (19E).
Rec #: 1890
Call Number: LITE EVAL CODED(ES,PMR),TARGET(CBL,TDC,BFT)
Notes: EcoReference No.: 90586
Chemical of Concern: CBL,TDC,PMR,BFT,ES

228. Xue, M. and Li, Q. Studies on Selective Toxicity of Six Insecticides Between Green Peach Aphid and Ladybirds. MOR,REP. M.Xue, Dep. of Plant Prot., Shandong Agric. Univ., Taian, Shandong Province 271018, China: ENV,MIXTURE; 2002; 9, (2): 17-22.
Rec #: 270
Call Number: OK TARGET(DMT),TARGET(MOM)
Notes: EcoReference No.: 71546
Chemical of Concern: FNV,IMC,MOM,DMT,ES

229. Zhao, G.; Liu, W.; Brown, J. M., and Knowles, C. O. Insecticide Resistance in Field and Laboratory Strains of Western Flower Thrips (Thysanoptera: Thripidae). MOR. 4557: ENV,MIXTURE; 1995; 88, (5): 1164-1170.
Rec #: 450
Call Number: OK TARGET(MOM),NO MIXTURE(PPB),TARGET(CYP,DZ)
Notes: EcoReference No.: 55928
Chemical of Concern: MOM,PMR,CYP,FNV,DZ,BDC,AMZ,IMC,PPB

230. Zidan, Z. H.; Abdel-Megeed, M. I.; Watson, W. M., and Sobeiha, A. K. Ovicidal Activity of Certain Mineral Oils, Organic Insecticides and Their Mixtures Against the Cotton Leafworm, Spodoptera littoralis (Boisd.) (Lepidoptera: Noctuidae). MORSOIL,ENV,NIXTURE; 1987; 22, (3): 241-247.
Rec #: 790
Keywords: MIXTURE
Call Number: OK(ALL CHEMS),OK TARGET(ALSV,MOM),TARGET(TDC)
Notes: EcoReference No.: 78162
Chemical of Concern: ALSV,TDC,MOM,PFF,CPY,CYP,FPP,FNV