

Appendix I: Bibliography of ECOTOX Open Literature for Tribufos.

Explanation of OPP Acceptability Criteria and Rejection Codes for ECOTOX Data:

Studies located and coded into ECOTOX must meet acceptability criteria, as established in the *Interim Guidance of the Evaluation Criteria for Ecological Toxicity Data in the Open Literature, Phase I and II*, Office of Pesticide Programs, U.S. Environmental Protection Agency, July 16, 2004. Studies that do not meet these criteria are designated in the bibliography as “Accepted for ECOTOX but not OPP.” The intent of the acceptability criteria is to ensure data quality and verifiability. The criteria parallel criteria used in evaluating registrant-submitted studies. Specific criteria are listed below, along with the corresponding rejection code.

- The paper does not report toxicology information for a chemical of concern to OPP; (Rejection Code: NO COC)
- The article is not published in English language; (Rejection Code: NO FOREIGN)
- The study is not presented as a full article. Abstracts will not be considered; (Rejection Code: NO ABSTRACT)
- The paper is not publicly available document; (Rejection Code: NO NOT PUBLIC (typically not used, as any paper acquired from the ECOTOX holding or through the literature search is considered public))
- The paper is not the primary source of the data; (Rejection Code: NO REVIEW)
- The paper does not report that treatment(s) were compared to an acceptable control; (Rejection Code: NO CONTROL)
- The paper does not report an explicit duration of exposure; (Rejection Code: NO DURATION)
- The paper does not report a concurrent environmental chemical concentration/dose or application rate; (Rejection Code: NO CONC)
- The paper does not report the location of the study (e.g., laboratory vs. field); (Rejection Code: NO LOCATION)
- The paper does not report a biological effect on live, whole organisms; (Rejection Code: NO IN-VITRO)
- The paper does not report the species that was tested; and this species can be verified in a reliable source; (Rejection Code: NO SPECIES)
- The paper does not report effects associated with exposure to a single chemical. (Rejection Code: NO MIXTURE). It should be noted that all papers including data on pesticide mixtures are considered.

Additionally, efficacy studies on target species are excluded and coded as NO TARGET.

Data that originated from the OPP Pesticide Ecotoxicity Database is coded as NO EFED. These data are already available to the chemical team.

Acceptable for ECOTOX and OPP

1. Abdo, K. M., Timmons, P. R., and Abou-Donia, M. B. (1983). Effects of a Dermal Dose of S,S,S,-Tri-n-Butyl Phosphorotrithioate on Brain Acetylcholinesterase, Acid Phosphatase, and 2',3'-Cyclic Nucleotide-3' Phosphohydrolase and Plasma Butyrylcholinesterase in Hens. *Dev.Toxicol.Environ.Sci.* 11: 499-502.

EcoReference No.: 92938

Chemical of Concern: TBF,PRN; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(TBF),OK(PRN).

2. Abou-Donia, M. B. (1979). Late Acute Effect of S,S,S-Tributyl Phosphorotrithioate (DEF) in Hens. *Toxicol.Lett.* 4: 231-236.

EcoReference No.: 93054

Chemical of Concern: TBF,PRN; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(TBF),NO ENDPOINT(PRN).

3. Abou-Donia, M. B., Abdo, K. M., Timmons, P. R., and Proctor, J. E. (1986). Brain Acetylcholinesterase, Acid Phosphatase, and 2',3'-Cyclic Nucleotide-3'-Phosphohydrolase and Plasma Butyrylcholinesterase Activities in Hens Treated with a Single Dermal Neurotoxic Dose of S,S,S-Tri-n-Butyl Phosphorotrithioate. *Toxicol.Appl.Pharmacol.* 82: 461-473.

EcoReference No.: 93169

Chemical of Concern: TBF,PRN; Habitat: T; Effect Codes: PHY,BCM,GRO,CEL; Rejection Code: LITE EVAL CODED(TBF).

4. Abou-Donia, M. B., Graham, D. G., Timmons, P. R., and Reichert, B. L. (1979). Delayed Neurotoxic and Late Acute Effects of S,S,S-Tributyl Phosphorotrithioate on the Hen: Effect of Route of Administration. *Neurotoxicology* 1: 425-447.

EcoReference No.: 92614

Chemical of Concern: TBF,PRN; Habitat: T; Effect Codes: GRO,BCM,CEL,ACC,PHY,BEH; Rejection Code: LITE EVAL CODED(TBF).

5. Ahmed, S., Wilkins, R. M., Saleem, M. A., and Mantle, D. (2001). The Action of Insecticides Synergists on Intracellular Proteases of Musca domestica (L.). *Pak.J.Zool.* 33: 209-212.

EcoReference No.: 92456

Chemical of Concern: PPB,TBF; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: LITE EVAL CODED(TBF),OK(PPB).

6. Astroff, A. B., Freshwater, K. J., and Eigenberg, D. A. (1998). Comparative Organophosphate-Induced Effects Observed in Adult and Neonatal Sprague-Dawley Rats During the Conduct of Multigeneration Toxicity Studies. *Reprod.Toxicol.* 12: 619-645.

EcoReference No.: 88895

Chemical of Concern: TCF,TBF,OXD,FMP,CMPPH; Habitat: T; Effect Codes: MOR,GRO,BEH,REP,BCM; Rejection Code: LITE EVAL CODED(OXD,TBF),OK(TCF,FMP,CMPPH).

7. Astroff, A. B. and Young, A. D. (1998). The Relationship Between Maternal and Fetal Effects Following Maternal Organophosphate Exposure During Gestation in the Rat. *Toxicol.Ind.Health* 14: 869-889.

EcoReference No.: 87633

Chemical of Concern: TBF,AZ,FMP,IFP,FNTH,OXD; Habitat: T; Effect Codes: BEH,MOR,GRO,REP,BCM; Rejection Code: LITE EVAL

CODED(OXD,TBF),OK(AZ,FMP,IFP,FNTH).

8. Butler, P. A. (1965). Effects of Herbicides on Estuarine Fauna. *Proc.South.Weed Conf.* 18: 576-580.

EcoReference No.: 14134

Chemical of Concern:

DU,ATZ,AMTR,PMT,PRO,ACL,DCPA,PAQT,MLT,NTP,TBF,VNT,EPTC,PCL,PEB,DDT,24DXY,
BEE; Habitat: A; Effect Codes: MOR,GRO,POP; Rejection Code: LITE EVAL
CODED(PRO,ATZ,MLT,ACL,TBF),OK(ALL CHEMS).

9. Caldwell, R. S. (1977). Biological Effects of Pesticides on the Dungeness Crab. *EPA-600/3-77-131, U.S.EPA, Gulf Breeze, FL* 143 p.(U.S.NTIS PB-276978).

EcoReference No.: 6793

Chemical of Concern: CBF,CHD,MLN,MXC,24DXY,Captan,PPN,TFN,TBF; Habitat: A; Effect Codes: GRO,MOR,CEL,ACC,BEH; Rejection Code: LITE EVAL
CODED(TBF,CBF,MLN,Captan),OK(ALL CHEMS).

10. Cleveland, L. and Hamilton, S. J. (1983). Toxicity of the Organophosphorus Defoliant DEF to Rainbow Trout (*Salmo gairdneri*) and Channel Catfish (*Ictalurus punctatus*). *Aquat.Toxicol.* 4: 341-355.

EcoReference No.: 10058

Chemical of Concern: TBF; Habitat: A; Rejection Code: LITE EVAL CODED(TBF).

11. Coto, M. M. R., Lazcano, J. A. B., De Fernandez, D. M., and Soca, A. (2000). Malathion Resistance in *Aedes aegypti* and *Culex quinquefasciatus* After Its Use in *Aedes aegypti* Control Programs. *J.Am.Mosq.Control Assoc.* 16: 324-330.

EcoReference No.: 92831

Chemical of Concern: MLN,PPB,TBF; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(TBF),OK(PPB,MLN).

12. Fabacher, D. L., Kulkarni, A. P., and Hodgson, E. (1980). Pesticides as Inducers of Hepatic Drug-Metabolizing Enzymes - I. Mixed Function Oxidase Activity. *Gen.Pharmacol.* 11: 429-435.

EcoReference No.: 92612

Chemical of Concern: CHD,CPY,ES,MLN,PMR,24D,PPB,TFN,FNV,TBF; Habitat: T; Effect Codes: GRO,BCM; Rejection Code: LITE EVAL
CODED(CPY,24D,TBF,FNV),OK(MLN,PMR,PPB).

13. Greenberg, S. M., Sappington, T. W., Elzen, G. W., Norman, J. W., and Sparks, A. N. (2004). Effects of Insecticides and Defoliants Applied Alone and in Combination for Control of Overwintering Boll Weevil (*Anthonomus grandis*; Coleoptera: Curculionidae) - Laboratory and Field Studies. *Pest.Manag.Sci.* 60: 849-858 .

EcoReference No.: 92450

Chemical of Concern: TBF,LCYT,TDZ,THFM,AZ; Habitat: T; Effect Codes: MOR,POP; Rejection Code: LITE EVAL CODED(TBF),OK TARGET(AZ).

14. Hopkins, A. R. and Moore, R. F. (1980). Thidiazuron: Effect of Applications on Boll Weevil and Bollworm Population Densities, Leaf Abscission, and Regrowth of the Cotton Plant. *J.Econ.Entomol.* 73: 768-770.

EcoReference No.: 93244

Chemical of Concern: TDZ,TBF; Habitat: T; Effect Codes: POP,REP,GRO; Rejection Code: LITE EVAL CODED(TBF),OK(TDZ).

15. Imamaliev, A. I. and Karakuziev, T. U. (1983). Effect of Butiphos on Organelles of Cell Structures in Cotton Leaves. *Dok Vses Ak* 0(1): 16-17 .

EcoReference No.: 25242
Chemical of Concern: TBF; Habitat: T; Rejection Code: TARGET(TBF).
16. Kreft, W. D., Hoffert, J. R., and Fromm, P. O. (1985). Action of Organophosphates on the Electroretinogram of Rainbow Trout. *Exp.Biol.* 44: 19-27.

EcoReference No.: 92937
Chemical of Concern: TBF; Habitat: A; Effect Codes: PHY; Rejection Code: LITE EVAL CODED(TBF).
17. Lindroth, R. L. and Bloomer, M. S. (1991). Biochemical Ecology of the Forest Tent Caterpillar: Responses to Dietary Protein and Phenolic Glycosides. *Oecologia* 86: 408-413.

EcoReference No.: 92611
Chemical of Concern: TBF; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: LITE EVAL CODED(TBF).
18. Nimmo, D. R., Hamaker, T. L., Matthews, E., and Moore, J. C. (1981). An Overview of the Acute and Chronic Effects of First and Second Generation Pesticides on an Estuarine Mysid. In: *F.J.Vernberg, A.Calabrese, F.P.Thurberg, and W.B.Vernberg (Eds.), Biological Monitoring of Marine Pollutants, Academic Press, Inc., NY* 3-19.

EcoReference No.: 4891
Chemical of Concern: CBL,MP,PRT,DZ,TFN,TXP,DFZ,TBF; Habitat: A; Effect Codes: REP,MOR; Rejection Code: LITE EVAL CODED(TBF,CBL,DZ,PRT,MP),OK(TFN,TXP,DFZ).
19. Norment, B. R. and Chambers, H. W. (1970). Joint Actions in Organophosphorus Poisoning in Boll Weevils. *J.Econ.Entomol.* 63: 499-502.

EcoReference No.: 92832
Chemical of Concern: AZ,MP,MLN,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(TBF),OK TARGET(AZ,MP,MLN).
20. Norment, B. R. and Chambers, H. W. (1970). Temperature Relation in Organophosphorus Poisoning in Boll Weevils. *J.Econ.Entomol.* 63: 502-504.

EcoReference No.: 93245
Chemical of Concern: MP,AZ,MLN,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(TBF),OK TARGET(MP,AZ,MLN).
21. Palawski, D., Buckler, D. R., and Mayer, F. L. (1983). Survival and Condition of Rainbow Trout (*Salmo gairdneri*) After Acute Exposures to Methyl Parathion, Triphenyl Phosphate, and DEF. *Bull.EnvIRON.Contam.Toxicol.* 30: 614-620.

EcoReference No.: 15572
Chemical of Concern: MP,TBF; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(TBF,MP).
22. Quistad, G. B., Nomura, D. K., Sparks, S. E., Segall, Y., and Casida, J. E. (2002). Cannabinoid CB1 Receptor as a Target for Chlorpyrifos Oxon and Other Organophosphorus Pesticides. *Toxicol.Lett.* 135: 89-93.

EcoReference No.: 91449
Chemical of Concern: CPY,DZ,DDVP,TBF,PFF; Habitat: T; Effect Codes: BCM,CEL; Rejection

Code: LITE EVAL CODED(TBF),NO COC(MP),NO ENDPOINT(CPY,DZ,PFF).

23. Quistad, G. B., Sparks, S. E., and Casida, J. E. (2001). Fatty Acid Amide Hydrolase Inhibition by Neurotoxic Organophosphorus Pesticides. *Toxicol.Appl.Pharmacol.* 173: 48-55.

EcoReference No.: 87216

Chemical of Concern: CPY,PFF,TBF,DZ; Habitat: T; Effect Codes: BCM,PHY,MOR,BEH;
Rejection Code: LITE EVAL CODED(DZ,TBF),OK(CPY,PFF).

24. Ray, D. E. and Cunningham, V. J. (1985). Hypothermia Produced by Tributyl S,S,S-Phosphorotrithioate (DEF). *Arch.Toxicol.* 56: 279-282.

EcoReference No.: 93168

Chemical of Concern: TBF; Habitat: T; Effect Codes: PHY,BCM; Rejection Code: LITE EVAL CODED(TBF).

25. Sanders, H. O. (1970). Pesticide Toxicities to Tadpoles of the Western Chorus Frog *Pseudacris triseriata* and Fowler's Toad *Bufo woodhousii fowleri*. *Copeia* 2: 246-251 (Author Communication Used) (Publ in Part As 6797).

EcoReference No.: 2891

Chemical of Concern:

EDT,24DXY,AZ,HCCH,MLN,MLT,Naled,PAQT,PPB,TFN,TXP,AND,HPT,DLD,PRN,EN,DDT,M XC,TBF; Habitat: A; Effect Codes: MOR,BEH,MOR; Rejection Code: LITE EVAL CODED(TBF,MLT,PPB,MLN),OK(ALL CHEMS).

26. Sparks, T. C. and Hammock, B. D. (1980). Comparative Inhibition of the Juvenile Hormone Esterases from *Trichoplusia ni*, *Tenebrio molitor*, and *Musca Domestica*. *Pestic.Biochem.Physiol.* 14: 290-302.

EcoReference No.: 92974

Chemical of Concern: PPX,CBL,ADC,MTPN,TBF,MTM; Habitat: T; Effect Codes: BCM;
Rejection Code: TARGET(MTPN,TBF,PPX,CBC,ADC,MTM).

27. Sparks, T. C., Roe, R. M., Buehler, A., and Hammock, B. D. (1985). Bioassay of Anti Juvenile Hormone Compounds: An Alternative Approach. *ACS Symp.Series* 276: 293-306.

EcoReference No.: 93063

Chemical of Concern: PPB,TBF,CBL; Habitat: T; Effect Codes: PHY,BCM,GRO; Rejection Code: LITE EVAL CODED(TBF),OK(PPB,CBL).

28. Straus, D. L. (1994). Chlorpyrifos and Parathion Effects on Enzyme Activities in Fingerling Channel Catfish, *Ictalurus punctatus*: Interactions with DEF (S,S,S-Tributyl Phosphorotrithiolate) and Aroclor 1254. *Ph.D.Thesis, Mississippi State Univ., State College, MS* 74 p.

EcoReference No.: 72743

Chemical of Concern: PPB,PCB,PRN,TBF,CPY,PRN; Habitat: A; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(PPB,CPY,TBF).

29. Walsh, G. E. and Alexander, S. V. (1980). A Marine Algal Bioassay Method: Results with Pesticides and Industrial Wastes. *Water Air Soil Pollut.* 13: 45-55 (Author Communication Used).

EcoReference No.: 5297

Chemical of Concern: CBL,EP,MP,PRT,TBC,PMR,TBF; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(TBF,CBL,PRT,MP),OK(EP,TBC,PMR).

30. Walsh, G. E., McLaughlin, L. L., Yoder, M. J., Moody, P. H., Loes, E. M., Forester, J., and Wessinger-Duvall,

P. B. (1988). *Minutocellus polymorphus*: A New Marine Diatom for Use in Algal Toxicity Tests. *Environ.Toxicol.Chem.* 7: 925-929.

EcoReference No.: 13180

Chemical of Concern: Cd,Pb,Zn,TBT,CPY,ATZ,TBF; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(CPY,TBF,ATZ),OK(ALL CHEMS).

31. Wang, Q., Cheng, J.-A., Liu, Z.-M., Wu, S.-G., Zhao, X.-P., and Wu, C.-X. (2005). Influences of Insecticides on Toxicity and Cuticular Penetration of Abamectin in *Helicoverpa armigera*. *Insect Sci.* 12: 109-119.

EcoReference No.: 93106

Chemical of Concern: TBF,PPB,EFV,DZ,FPP,HFR,ABM,CPY,CYH; Habitat: T; Effect Codes: MOR,ACC; Rejection Code: LITE EVAL CODED(TBF),OK(PPB),NO MIXTURE(TARGET-CPY,EFV,DZ).

32. Wilson, B. W., Cisson, C. M., Randall, W. R., Woodrow, J. E., Seiber, J. N., and Knaak, J. B. (1982). An Animal Model for Testing Organophosphates in the Field. S,S,S-Tributyl Phosphorotrithioate and the Scaleless Chicken. *ACS Symp.Ser.No.* 182: 189-200.

EcoReference No.: 93064

Chemical of Concern: EDT,TBF; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(TBF),OK(EDT).

33. Yoon, K. S., Gao, J.-R., Lee, S. H., Coles, G. C., Meinking, T. L., Taplin, D., Edman, J. D., Takano-Lee, M., and Clark, J. M. (2004). Resistance and Cross-Resistance to Insecticides in Human Head Lice from Florida and California. *Pestic.Biochem.Physiol.* 80: 192-201.

EcoReference No.: 92451

Chemical of Concern: TBF,DDT,MLO,PMR,MLN,PPB,HCCH,ABM; Habitat: T; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(TBF),OK TARGET(MLO,PMR,MLN,PPB).

Acceptable for ECOTOX but not OPP

1. Abd-Elghafar, S. F., Knowles, C. O., and Wall, M. L. (1993). Pyrethroid Resistance in Two Field Strains of *Helicoverpa zea* (Lepidoptera: Noctuidae). *J.Econ.Entomol.* 86: 1651-1655.

EcoReference No.: 93297

Chemical of Concern: PMR,CYP,FNV,CBL,MP,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(PPB,TBF),OK TARGET(PMR,CYP,FNV,CBL,MP).

2. Abdo, K. M., Timmons, P. R., Graham, D. G., and Abou-Donia, M. B. (1983). Heinz Body Production and Hematological Changes in the Hen After Administration of a Single Oral Dose of n-Butyl Mercaptan and n-Butyl Disulfide. *Fundam.Appl.Toxicol.* 3: 69-74.

EcoReference No.: 92640

Chemical of Concern TBF; Habitat: T; Effect Codes: BCM,CEL,PHY; Rejection Code: NO COC(TBF).

3. Abernathy, C. O., Ueda, K., Engel, J. L., Gaughan, L. C., and Casida, J. E. (1973). Substrate-Specificity and Toxicological Significance of Pyrethroid-Hydrolyzing Esterases of Mouse Liver Microsomes. *Pestic.Biochem.Physiol.* 3: 300-311.

EcoReference No.: 93237

Chemical of Concern: TBF,BRSM,ATN,PPB,TMT; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO MIXTURE(TBF),OK(BRSM,ATN,TMT).

4. Abou-Donia, M. B., Graham, D. G., Abdo, K. M, and Komeil, A. A. (1979). Delayed Neurotoxic, Late Acute and Cholinergic Effects of S,S,S-Tributyl Phosphorotrithioate (DEF): Subchronic (90 days) Administration in Hens. *Toxicology* 14: 229-243.

EcoReference No.: 92642
Chemical of Concern: TBF; Habitat: T; Effect Codes: BCM,GRO,PHY,BEH,MOR,CEL; Rejection Code: NO ENDPOINT(TBF).
5. Ahmed, M. T., Ahmed, Y. M., and Moustafa, A. S. (1987). Some Studies on the Development of Resistance to Diflubenzuron in the Egyptian Cotton Leafworm.
Meded.Fac.Landbouwkd.Toegep.Biol.Wet.Univ.Gent 52: 477-483.

EcoReference No.: 93346
Chemical of Concern: CYP,CPY,DFZ; Habitat: T; Effect Codes: MOR,POP,BCM; Rejection Code: OK TARGET(CPY,CYP),NO COC(TBF).
6. Al-Rajhi, D. H. and Brindley, W. A. (1985). Relationships Between Synergistic and Biochemical Analyses of Paraoxon Tolerance in Pea Aphids. *Alex.Sci.Exch.* 6: 142-159.

EcoReference No.: 93089
Chemical of Concern: TBF,PPB,CBL; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO ENDPOINT(TARGET-CBL),NO MIXTURE(TBF,PPB).
7. Apperson, C. S. and Georgiou, G. P. (1975). Mechanisms of Resistance to Organophosphorus Insecticides in *Culex tarsalis*. *J.Econ.Entomol.* 68: 153-157.

EcoReference No.: 92649
Chemical of Concern: TBF,PPB,MPO,MP,MLX,PRN,FNT,FNTH,CPYM; Habitat: A; Effect Codes: BCM,MOR,ACC; Rejection Code: NO CONTROL(TARGET-MPO,MP,MLN,CPYM),NO CONTROL,NO ENDPOINT(PPB,TBF).
8. Argentine, J. A., Clark, J. M., and Lin, H. (1992). Genetics and Biochemical Mechanisms of Abamectin Resistance in Two Isogenic Strains of Colorado Potato Beetle. *Pestic.Biochem.Physiol.* 44: 191-207.

EcoReference No.: 93005
Chemical of Concern: PPB,TBF,DLD,ABM; Habitat: T; Effect Codes: BCM,MOR; Rejection Code: NO MIXTURE(PPB,TBF).
9. Attia, F. I., Shanahan, G. J., and Hughes, P. B. (1979). Synergism of Diazinon Against Susceptible and Organophosphorus Resistant *Lucilia cuprina* (Wiedemann). *J.Aust.Entomol.Soc.* 18: 141-142.

EcoReference No.: 92595
Chemical of Concern: TBF,DZ; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TBF,DZ).
10. Attia, F. I., Shanahan, G. J., and Shipp, E. (1980). Synergism Studies with Organophosphorus Resistant Strains of the Indianmeal Moth. *J.Econ.Entomol.* 73: 184-185.

EcoReference No.: 93264
Chemical of Concern: PIRM,MLN,DDVP,DZ,FNT,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-MLN,DZ),NO MIXTURE(PPB,TBF).
11. Bacey, J., Spurlock, F., Starnes, K., Feng, H., Hsu, J., White, J., and Tran, D. M. (2005). Residues and Toxicity of Esfenvalerate and Permethrin in Water and Sediment, in Tributaries of the Sacramento and San Joaquin Rivers, California, USA. *Bull.EnvIRON.Contam.Toxicol.* 74: 864-871.

EcoReference No.: 92740

Chemical of Concern: SZ,HXZ,BMC,ATZ,TBF,PRT,DDVP,DZ,CPY,PMR,EFV,DMT,MP; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONC,NO ENDPOINT(SZ,PRT,DZ,CPY,PMR,EFV,DMT,MP).

12. Bajwa, R. S. and Fujimoto, J. M. (1983). Effect of Colchicine and S,S,S-Tributyl Phosphorotrithioate (DEF) on the Biliary Excretion of Sucrose, Mannitol and Horseradish Peroxidase in the Rat. *Biochem.Pharmacol.* 32: 85-90.

EcoReference No.: 93125

Chemical of Concern: TBF; Habitat: T; Effect Codes: ACC; Rejection Code: NO MIXTURE(TBF).

13. Baron, R. L. and Johnson, H. (1964). Neurological Disruption Produced in Hens by Two Organophosphate Esters. *Br.J.Pharmacol.Chemother.* 23: 295-304.

EcoReference No.: 92702

Chemical of Concern: TBF; Habitat: T; Effect Codes: BCM,CEL,PHY,MOR; Rejection Code: NO ENDPOINT(TBF).

14. Bell, J. D. and Busvine, J. R. (1967). Synergism of Organophosphates in *Musca domestica* and *Chrysomya putoria*. *Entomol.Exp.Appl.* 10: 263-269.

EcoReference No.: 92645

Chemical of Concern: TBF,MLN,DZ,PRN,CMPI; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-DZ,MLN),NO MIXTURE(TBF).

15. Berrada, S., Fournier, D., Cuany, A., and Nguyen, T. X. (1994). Identification of Resistance Mechanisms in a Selected Laboratory Strain of *Cacopsylla pyri* (Homoptera: Psyllidae): Altered Acetylcholinesterase and Detoxifying Oxidases. *Pestic.Biochem.Physiol.* 48: 41-47.

EcoReference No.: 93080

Chemical of Concern: PPB,TBF; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO MIXTURE(PPB,TBF).

16. Biddinger, D. J., Hull, L. A., and McPherson, B. A. (1996). Cross-Resistance and Synergism in Azinphosmethyl Resistant and Susceptible Strains of Tufted Apple Bud moth (Lepidoptera: Tortricidae) to Various Insect Growth Regulators and Abamectin. *J.Econ.Entomol.* 89: 274-287.

EcoReference No.: 92696

Chemical of Concern: DEM,PPB,HFR,ABM,TBF,AZ,MLN,TUZ,DFZ,FYC; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(AZ,MLN,FYC),NO MIXTURE(TBF,PPB).

17. Bigley, W. S. and Vinson, S. B. (1979). Effects of Piperonyl Butoxide and DEF on the Metabolism of Methoprene by the Imported Fire Ant, *Solenopsis invicta* Buren. *Pestic.Biochem.Physiol.* 10: 14-22.

EcoReference No.: 92990

Chemical of Concern: MTPN,TBF,PPB; Habitat: T; Effect Codes: ACC; Rejection Code: NO MIXTURE(TBF,PPB),NO ENDPOINT(MTPN).

18. Bodnaryk, R. P., Barker, P. S., and Kudryk, L. (1984). Interaction Between Synergists and Permethrin in Adults of the Red Flour Beetle, *Tribolium castaneum* (Herbst). *Pestic.Sci.* 15: 481-486.

EcoReference No.: 93121

Chemical of Concern: PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(PPB,TBF).

19. Brown, M. A. and Casida, J. E. (1984). Influence of Pyrethroid Ester, Oxime Ether, and Other Central Linkages on Insecticidal Activity, Hydrolytic Detoxification, and Physicochemical Parameters. *Pestic.Biochem.Physiol.* 22: 78-85.

EcoReference No.: 92893
Chemical of Concern: TBF,PPB; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF,PPB).

20. Bull, D. L., Harris, R. L., and Pryor, N. W. (1988). The Contribution of Metabolism to Pyrethroid and DDT Resistance in the Horn Fly (Diptera: Muscidae). *J.Econ.Entomol.* 81: 449-458.

EcoReference No.: 92686
Chemical of Concern: TBF,PPB,CMPH,DDT,PMR,FNV; Habitat: T; Effect Codes: MOR,ACC; Rejection Code: OK TARGET(PMR,FNV),NO MIXTURE(PPB,TBF).

21. Bull, D. L. and Patterson, R. S. (1993). Characterization of Pyrethroid Resistance in a Strain of the German Cockroach (Dictyoptera: Blattellidae). *J.Econ.Entomol.* 86: 20-25.

EcoReference No.: 92699
Chemical of Concern: PPB,TBF,PMR; Habitat: T; Effect Codes: MOR,ACC; Rejection Code: OK TARGET(PMR),NO MIXTURE(PPB,TBF).

22. Butler, P. A. (1964). Commercial Fishery Investigations. In: *Pesticide-Wildlife Studies, 1963, U.S.D.I., Fish and Wildl.Serv.,Circ.199* 28 p.(Author Communication Used).

EcoReference No.: 646
Chemical of Concern:
AZ,DS,HCCH,MLN,MP,Naled,PRT,24DXY,CMPH,DMT,DU,PEB,PSM,NTP,TXP,CBL,TBF;
Habitat: A; Effect Codes: BEH,POP,MOR,GRO,ACC,SYS; Rejection Code: NO CONTROL(MP,Naled),LITE EVAL CODED(MLN,PRT),OK(ALL CHEMS),NO ENDPOINT(DMT),NO ENDPOINT,NO CONTROL(TBF).

23. Butler, P. A. (1965). Commercial Fishery Investigations. In: *Effects of Pesticides on Fish and Wildl.Circ.226, U.S.D.I., Washington, D.C.* 65-77.

EcoReference No.: 807
Chemical of Concern:
ATZ,BS,CMPH,DU,HCCH,MLT,PMT,PRT,ACL,NTP,PCLK,PRO,OXD,Captan,TBF; Habitat: A; Effect Codes: GRO,MOR,BEH; Rejection Code: NO CONTROL(BS,OXD,ATZ,MLT,ACL,Captan,TBF),LITE EVAL CODED(PRO).

24. Caldwell, R. S., Buchanan, D. V., Armstrong, D. A., Mallon, M. H., and Millemann, R. E. (1979). Toxicity of the Herbicides 2,4-D, DEF, Propanil and Trifluralin to the Dungeness Crab, Cancer magister. *Arch.EnvIRON.Contam.Toxicol.* 8: 383-396.

EcoReference No.: 5724
Chemical of Concern: 24DXY,TFN,TBF; Habitat: A; Effect Codes: MOR,GRO; Rejection Code: NO ENDPOINT,NO CONTROL(TBF).

25. Castillo, L. E., Martinez, E., Ruepert, C., Savage, C., Gilek, M., Pinnock, M., and Solis, E. (2006). Water Quality and Macroinvertebrate Community Response Following Pesticide Applications in a Banana Plantation, Limon, Costa Rica. *Sci.Total Environ.* 367: 418-432.

EcoReference No.: 93203
Chemical of Concern: TBF,MZB,CTN,BTN,BMY,CPY,CBF,TBO,CDF; Habitat: A; Effect Codes: GRO,MOR; Rejection Code: NO CONTROL,NO ENDPOINT(CBF),NO

MIXTURE(MZB,CTN,CPY).

26. Cheikh, H. B., Ali-Haouas, Z. B., Marquine, M., and Pasteur, N. (1998). Resistance to Organophosphorus and Pyrethroid Insecticides in *Culex pipiens* (Diptera: Culicidae) from Tunisia. *J.Med.Entomol.* 35: 251-260.

EcoReference No.: 72631

Chemical of Concern: CPY,DDT,PMR,PPB,PPX,TBF; Habitat: A; Effect Codes: BCM,CEL,MOR; Rejection Code: NO CONTROL(CPY,PMR),NO MIXTURE(PPB,TBF).

27. Chen, J. S., Lee, C. J., Yao, M. G., and Sun, C. N. (1985). Effect of Pyrethroids on Knockdown and Lack of Coordination Responses of Susceptible and Resistant Diamondback Moth (Lepidoptera: Plutellidae). *J.Econ.Entomol.* 78: 1198-1202.

EcoReference No.: 92650

Chemical of Concern: DDT,FYT,FVL,FNV,TMT,PTR,FPP,PMR,CYP,DM,TLM,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-FVL,TMT,PMR,CYP),NO CONTROL,NO ENDPOINT(PPB,TBF).

28. Chen, J. S. and Sun, C. N. (1986). Resistance of Diamondback Moth (Lepidoptera: Plutellidae) to a Combination of Fenvalerate and Piperonyl Butoxide. *J.Econ.Entomol.* 79: 22-30.

EcoReference No.: 93271

Chemical of Concern: TBF,FNV,PPB,CBF,CBL,MOM,MTM,PMR,CYP,DM,ACP,DZ,MVP,PPF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF,PPB),NO CONTROL(CBF,TARGET-FNV,CBL,MOM,MTM,PMR,CYP).

29. Christie, P. T. and Wright, D. J. (1990). Activity of Abamectin Against Larval Stages of *Spodoptera littoralis* Boisduval and *Heliothis armigera* Hubner (Lepidoptera: Noctuidae) and Possible Mechanisms Determining Differential Toxicity. *Pestic.Sci.* 29: 29-38.

EcoReference No.: 92890

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

30. Chung, T.-C. and Sun, C.-N. (1983). Malathion and MIPC Resistance in *Nilaparvata lugens* (Homoptera: Delphacidae). *J.Econ.Entomol.* 76: 1-5.

EcoReference No.: 92902

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

31. Cilek, J. E. and Knapp, F. W. (1993). Influence of Insecticide Mixtures Impregnated in Cattle Ear Tags for Management of Pyrethroid-Resistant Horn Flies (Diptera: Muscidae). *J.Econ.Entomol.* 86: 444-449.

EcoReference No.: 92604

Chemical of Concern: PMR,CYH,PPB,TBF,CYP,CPY; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(PPB,TBF,CYP,CPY),NO CONTROL(PMR,CYH).

32. Cochran, D. G. (1987). Selection for Pyrethroid Resistance in the German Cockroach (Dictyoptera: Blattellidae). *J.Econ.Entomol.* 80: 1117-1121.

EcoReference No.: 93300

Chemical of Concern: ATN,TBF,PPB,PMR,FNV,PTR,CYF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(PPB,TBF),NO CONTROL(ATN,PMR,FNV,CYF).

33. Cohen, S. D. and Murphy, S. D. (1974). A Simplified Bioassay for Organophosphate Detoxification and Interactions. *Toxicol.Appl.Pharmacol.* 27: 537-550.
- EcoReference No.: 89514
Chemical of Concern: MLO,ABT,AND,PRN,TBF; Habitat: T; Effect Codes: BCM,ACC; Rejection Code: NO MIXTURE(TBF),LITE EVAL CODED(MLO),OK(ABT,AND,PRN).
34. Collins, P. J. (1990). A New Resistance to Pyrethroids in *Tribolium castaneum* (Herbst). *Pestic.Sci.* 28: 101-115.
- EcoReference No.: 93114
Chemical of Concern: SMT,MTPN,MLN,CPYM,BRSM,CBL,CYF,PPB,TBF,CYP,FNV,FVL,CYH,DM,FNT,CYT,PIRM; Habitat: T; Effect Codes: MOR,REP; Rejection Code: NO MIXTURE(TBF,PPB),OK TARGET(SMT,MTPN,CPYM,BRSM,CBL,CYF,CYP,FNV,FVL) .
35. Dai, S. M. and Sun, C. N. (1984). Pyrethroid Resistance and Synergism in *Nilaparvata lugens* Stal (Homoptera: Delphacidae) in Taiwan. *J.Econ.Entomol.* 77: 891-897.
- EcoReference No.: 93262
Chemical of Concern: TBF,PPB,TLM,FYT,PTR,PMR,CYP,DM,FNV,TMT,FPP; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(PMR,CYP,FNV,TMT),NO MIXTURE(TBF,PPB).
36. Delorme, R., Fournier, D., Chaufaux, J., Cuany, A., Bride, J. M., Auge, D., and Berge, J. B. (1988). Esterase Metabolism and Reduced Penetration are Causes of Resistance to Deltamethrin in *Spodoptera exigua* HUB (Noctuidea; Lepidoptera). *Pestic.Biochem.Physiol.* 32: 240-246.
- EcoReference No.: 92981
Chemical of Concern: TBF,DM; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO ENDPOINT(TBF,DM),NO MIXTURE(TBF).
37. DeVries, D. H. (1979). Mechanisms of Resistance to Pyrethroid Insecticides in a Trans-Permethrin Selected Strain of the House Fly, *Musca domestica* L. *Ph.D.Thesis, Univ.of California, Riverside, CA* 157 p.
- EcoReference No.: 93074
Chemical of Concern: RSM,DTCYP,HCCH,DDT,DMT,EPRN,ATN,DTATN,FNV,PPB; Habitat: T; Effect Codes: ACC,BCM,MOR; Rejection Code: NO CONTROL(RSM,HCCH,DDT,DMT,EPRN,ATN,DTATN,FNV,PPB),OK(DTCYP),NO COC(TBF).
38. DeVries, D. H. and Georghiou, G. P. (1981). Absence of Enhanced Detoxication of Permethrin in Pyrethroid-Resistant House Flies. *Pestic.Biochem.Physiol.* 15: 242-252.
- EcoReference No.: 92993
Chemical of Concern: TBF; Habitat: T; Effect Codes: ACC,MOR; Rejection Code: OK(PMR),NO MIXTURE(TBF).
39. Dong, K. and Scott, J. G. (1992). Synergism of Chlorpyrifos Against the German Cockroach, *Blattella germanica*. *Med.Vet.Entomol.* 6: 241-243.
- EcoReference No.: 92646
Chemical of Concern: CPY,TBF,PPB,LIM,LIN; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-CPY),NO MIXTURE(PPB,TBF).
40. Dowd, P. F., Gagne, C. C., and Sparks, T. C. (1987). Enhanced Pyrethroid Hydrolysis in Pyrethroid-Resistant Larvae of the Tobacco Budworm, *Heliothis virescens* (F.). *Pestic.Biochem.Physiol.* 28: 9-16.

EcoReference No.: 92979

Chemical of Concern: PMR,TBF,PPB; Habitat: T; Rejection Code: NO CONTROL(PMR,TBF,PPB).

41. El-Guindy, M. A., El-Refai, A.-R. A., and Saleh, W. S. (1982). The Role of Esterases in the Defence Mechanism Against Intoxication by Fenitrothion in Susceptible and Field Tolerant Strains of *Spodoptera littoralis* Boisd. *Int.Pest Control* 24: 100-108.

EcoReference No.: 92701

Chemical of Concern: MTM,SPS,PFF,PMR,FNV,CYP,CPY,FNT,MOM,TBF,FNT,DCM,EN;
Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO ENDPOINT(TBF),NO MIXTURE(PPB),NO CONTROL,TARGET(MTM,sps,pff,PMR,FNV,CYP,CPY,FNT,MOM,EN,DCM),OK(FNT).

42. El-Guindy, M. A., Rahman, A., El-Refai, M., and Abdel-Sattar, M. M. (1983). The Pattern of Cross-Resistance to Insecticides and Juvenile Hormone Analogues in a Diflubenzuron-Resistant Strain of the Cotton Leaf Worm *Spodoptera littoralis* Boisd. *Pestic.Sci.* 14: 235-245.

EcoReference No.: 93120

Chemical of Concern: TDC,FNT,SPS,MP,PMR,FPP,FVL,DM,CYF,MTPN,DFZ,EN,CYP,DFZ,TBF,FNV,CPY,MOM,PFF;
Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF),NO CONTROL(TARGET-TDC,MP,PMR,FVL,CYF,MTPN,CYP,FNV,CPY,MOM).

43. Espinosa, P. J., Contreras, J., Quinto, V., Gravalos, C., Fernandez, E., and Bielza, P. (2005). Metabolic Mechanisms of Insecticide Resistance in the Western Flower Thrips, *Frankliniella occidentalis* (Pergande). *Pest Manag.Sci.* 61: 1009-1015.

EcoReference No.: 92891

Chemical of Concern: MCB,FTT,DM,ES,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF,PPB).

44. Fabacher, D. L., Davis, J. D., and Fabacher, D. A. (1976). Apparent Potentiation of the Cotton Defoliant DEF by Methyl Parathion in Mosquitofish. *Bull.Environ.Contam.Toxicol.* 16: 716-718.

EcoReference No.: 7762

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

45. Furlong, M. J. and Wright, D. J. (1994). Examination of Stability of Resistance and Cross-Resistance Patterns to Acylurea Insect Growth Regulators in Field Populations of the Diamondback Moth, *Plutella xylostella*, from Malaysia. *Pestic.Sci.* 42: 315-326.

EcoReference No.: 92892

Chemical of Concern: CYP,DFZ,HFR,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(CYP),NO MIXTURE(TBF,PPB).

46. Ganyard, M. C. Jr. and Brazzel, J. R. (1967). Phosphate Insecticides and Defoliants Applied Singly and in Combination for Control of Boll Weevils. *J.Econ.Entomol.* 60: 1027-1029.

EcoReference No.: 93266

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

47. Gazit, Y., Ishaaya, I., and Perry, A. S. (1989). Detoxification and Synergism of Diflubenzuron and Chlorfluazuron in the Red Flour Beetle *Tribolium castaneum*. *Pestic.Biochem.Physiol.* 34: 103-110.

- EcoReference No.: 92988
Chemical of Concern: DFZ,TBF; Habitat: T; Effect Codes: MOR,ACC; Rejection Code: OK(DFZ),NO MIXTURE(TBF).
48. Grafton-Cardwell, E. E., Ouyang, Y., and Salse, J. (1998). Insecticide Resistance and Esterase Enzyme Variation in the California Red Scale (Homoptera: Diaspididae). *J.Econ.Entomol.* 91: 812-819.
- EcoReference No.: 92895
Chemical of Concern: CBL,CPY,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-CBL,CPY),NO MIXTURE(TBF).
49. Granett, J. and Hejazi, M. J. (1983). Synergism of Two Benzoylphenyl Urea Insect Growth Regulators. *J.Econ.Entomol.* 76: 403-406.
- EcoReference No.: 93267
Chemical of Concern: DFZ,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(PPB,TBF).
50. Habig, C., Di Giulio, R. T., Nomeir, A. A., and Abou-Donia, M. B. (1986). Comparative Toxicity, Cholinergic Effects, and Tissue Levels of S,S,S-Tri-n-Butyl Phosphorotrithioate (DEF) to Channel Catfish (*Ictalurus punctatus*). *Aquat.Toxicol.* 9: 193-206.
- EcoReference No.: 12266
Chemical of Concern: TBF; Habitat: A; Rejection Code: NO ENDPOINT,NO CONTROL(TBF).
51. Habig, C., Nomeir, A., DiGiulio, T., and Abou-Donia, M. B. (1987). Extraction and Determination by Gas Chromatography of S,S,S-Tri-n-Butyl Phosphorotrithioate (DEF) in Fish and Water. *J.Assoc.Off.Anal.Chem.* 70: 103-106.
- EcoReference No.: 93078
Chemical of Concern: TBF; Habitat: A; Effect Codes: ACC; Rejection Code: NO CONTROL,ENDPOINT(TBF).
52. Hamadain, E. I. and Chambers, H. W. (2001). Susceptibility and Mechanisms Underlying the Relative Tolerance to Five Organophosphorus Insecticides in Tobacco Budworms and Corn Earworms. *Pestic.Biochem.Physiol.* 69: 35-47.
- EcoReference No.: 92447
Chemical of Concern: TBF,PRN,MP,CPY,CPYM,PFF; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO CONTROL(TBF),OK TARGET(MP,CPY,CPYM).
53. Harlow, C. D. and Lampert, E. P. (1990). Resistance Mechanisms in Two Color Forms of the Tobacco Aphid (Homoptera: Aphididae). *J.Econ.Entomol.* 83: 2130-2135.
- EcoReference No.: 93233
Chemical of Concern: MLN,ACP,TBF,ES,MTM; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO CONTROL(MLN,ACP,TBF,MTM).
54. Herath, P. R. J. and Davidson, G. (1981). Multiple Resistance in *Anopheles albimanus*. *Mosq.News* 41: 535-539.
- EcoReference No.: 92588
Chemical of Concern: PPX,DM,PMR,FNTH,PIRM,FNT,MLN,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF,PPB),NO CONTROL,NO ENDPOINT(PMR,MLN).

55. Holloway, J. W., Leonard, B. R., Ottea, J. A., Pankey, J. H., Graves, J. B., and Snodgrass, G. (1998). Insecticide Resistance and Synergism of Pyrethroid Toxicity in the Tarnished Plant Bug, *Lygus lineolaris*. *Proc.Beltwide Cotton Conf.* 2: 947-949.

EcoReference No.: 93022

Chemical of Concern: TBF,PPB,ACP,CYP,OML; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(ACP,CYP),NO MIXTURE(TBF,PPB).

56. Horowitz, Abraham R., Toscano, Nick C., Youngman, Roger R., and Georghiou, George P. (1988). Synergism of Insecticides with DEF in Sweetpotato Whitefly (Homoptera: Aleyrodidae). *J.Econ.Entomol.* 81: 110-114.

EcoReference No.: 93296

Chemical of Concern: CYP,PMR,MP,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(CYP,PMR,MP,TBF).

57. Hussein, S. M., Makadey, M. A., and Abd El-Alim, A. A. (1994). Susceptibility of Cotton Whitefly, *Bemisia tabaci* (Genn.) (Aleyrodidae, Homoptera) to Selected Insecticides, Their Mixtures and Their Synergism with DEF. *Shashpa* 1: 69-74.

EcoReference No.: 92648

Chemical of Concern: TBF,CYP,FNV,CPY; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-CYP,CPY,FNV),NO MIXTURE(TBF).

58. Ishaaya, I. and Casida, J. E. (1980). Properties and Toxicological Significance of Esterases Hydrolyzing Permethrin and Cypermethrin in *Trichoplusia ni* Larval Gut and Integument. *Pestic.Biochem.Physiol.* 14: 178-184.

EcoReference No.: 92638

Chemical of Concern: PMR,CYP,TBF; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: OK TARGET(PMR,CYP),NO COC(TBF).

59. Ishaaya, I. and Klein, M. (1990). Response of Susceptible Laboratory and Resistant Field Strains of *Spodoptera littoralis* (Lepidoptera: Noctuidae) to Teflubenzuron. *J.Econ.Entomol.* 83: 59-62.

EcoReference No.: 93235

Chemical of Concern: CYP,CPY,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF),OK TARGET(CYP,CPY).

60. Jensen, S. E. (2000). Mechanisms Associated with Methiocarb Resistance in *Frankliniella occidentalis* (Thysanoptera: Thripidae). *J.Econ.Entomol.* 93: 464-471.

EcoReference No.: 64669

Chemical of Concern: DDVP,TBF,MCB,PPB, Habitat: T; Effect Codes: BCM,MOR; Rejection Code: NO MIXTURE(PPB,TBF),OK(MCB,DDVP).

61. Johnson, M. K. (1970). Organophosphorus and Other Inhibitors of Brain 'Neurotoxic Esterase' and the Development of Delayed Neurotoxicity in Hens. *Biochem.J.* 120: 523-531.

EcoReference No.: 92286

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

62. Kanga, L. H. B., Plapp, F. W. Jr., Wall, M. L., Elzen, G. W., and Lopez, J. (1994). Resistance Monitoring and Mechanisms in the Tobacco Budworm to Organophosphate, Carbamate, and Cyclodiene Insecticides. *Proc.Beltwide Cotton Conf.* 2: 810-815.

EcoReference No.: 93009

Chemical of Concern: PFF,MOM,ES,TBF,PPB,FYC; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-PFF,MOM),NO MIXTURE(TBF,PPB,FYC).

63. Keiding, J. (1976). Resistance to Fenitrothion in Danish Houseflies, *Musca domestica*. *J.Hyg.Epidemiol.Microbiol.Immunol.* 20: 171-185.

EcoReference No.: 93307

Chemical of Concern: TBF,DZ,DMT,FNT,FNTH,TCF,PRN; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-DZ,DMT,PRN),NO MIXTURE(TBF).

64. Khayrandish, A. and Wood, R. J. (1993). A Multiple Basis for Insecticide Resistance in a Strain of *Culex quinquefasciatus* (Diptera: Culicidae) from Muheza, Tanzania, Studied as Resistance. *Bull.Entomol.Res.* 83: 75-86.

EcoReference No.: 17296

Chemical of Concern: CPY,TBF; Habitat: A; Effect Codes: PHY; Rejection Code: NO ENDPOINT,NO CONTROL(CPY),NO COC(TBF).

65. Knowles, C. O. and Casida, J. E. (1966). Mode of Action of Organophosphate Anthelmintics. Cholinesterase Inhibition in *Ascaris lumbricoides*. *J.Agric.Food Chem.* 14: 566-572.

EcoReference No.: 93272

Chemical of Concern:

DS,PRT,AZ,MLN,DMT,PRN,CMPH,DDVP,MVP,DCTP,TCF,MLO,TBF,FNTH,MP; Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT(DS,PRT,AZ,MLN,DMT,MLO,TBF,MP).

66. Konno, T., Kasai, Y., Rose, R. L., Hodgson, E., and Dauterman, W. C. (1990). Purification and Characterization of a Phosphotriester Hydrolase from Methyl Parathion-Resistant *Heliothis virescens*. *Pestic.Biochem.Physiol.* 36: 1-13.

EcoReference No.: 92691

Chemical of Concern: TBF,MP,MPO; Habitat: T; Effect Codes: MOR; Rejection Code: OK(MPO),OK TARGET(MP),NO MIXTURE(TBF).

67. Konno, Y., Shishido, T., and Tanaka, F. (1988). Effect of Organophosphorus Synergists on Fenitrothion Resistance in Rice Stem Borer, *Chilo suppressalis* (Walker) (Lepidoptera: Pyralidae). *Appl.Entomol.Zool.* 23: 99-102.

EcoReference No.: 93270

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

68. Lee, L. C. and Lee, C. Y. (2004). Insecticide Resistance Profiles and Possible Underlying Mechanisms in German Cockroaches, *Blattella germanica* (Linnaeus) (Dictyoptera: Blattellidae) from Peninsular Malaysia. *Med.Entomol.Zool.* 55: 77-93.

EcoReference No.: 93232

Chemical of Concern: CPY,DM,PMR,PPB,PPX,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF,PPB),NO CONTROL(CPY,PMR).

69. Little, E. E., Archeski, R. D., Flerov, B. A., and Kozlovskaya, V. I. (1990). Behavioral Indicators of Sublethal Toxicity in Rainbow Trout. *Arch.Environ.Contam.Toxicol.* 19: 380-385.

EcoReference No.: 3175

Chemical of Concern: PCP,MP,CHD,CBL,24DXY,TBF; Habitat: A; Effect Codes: BEH; Rejection Code: NO ENDPOINT(MP,TBF),LITE EVAL CODED(CBL,PCP),OK(24DXY,CHD).

70. Liu, M. Y., Chen, J. S., and Sun, C. N. (1984). Synergism of Pyrethroids by Several Compounds in Larvae of the Diamondback Moth (Lepidoptera: Plutellidae). *J.Econ.Entomol.* 77: 851-856.

EcoReference No.: 93265

Chemical of Concern: TBF,PPB,FNV,DM,CYP,PMR; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-FNV,PMR,CYP),NO MIXTURE(PPB,TBF).

71. Liu, N. and Yue, X. (2000). Insecticide Resistance and Cross-Resistance in the House Fly (Diptera: Muscidae). *J.Econ.Entomol.* 93: 1269-1275.

EcoReference No.: 87285

Chemical of Concern: TBF,TPT,PPB,PMR,CYP,DM,CPY,PPX,FPN,IMC,SS; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF,PPB),OK TARGET(PMR,CYP,CPY,FPN).

72. Maa, W. C. J. and Liao, S. C. (2000). Culture-Dependent Variation in Esterase Isozymes and Malathion Susceptibility of Diamondback Moth, *Plutella xylostella* L. *Zool.Stud.* 39: 375-386.

EcoReference No.: 92976

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

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EcoReference No.: 93118

Chemical of Concern: TBF,PMR,PPB; Habitat: T; Effect Codes: MOR; Rejection Code: OK(PMR),NO MIXTURE(PPB,TBF).

74. Mather-Mihaich, E. and Di Giulio, R. T. (1986). Antioxidant Enzyme Activities and Malondialdehyde, Glutathione and Methemoglobin Concentrations in Channel Catfish Exposed to DEF and N-Butyl. *Comp.Biochem.Physiol.* 85C: 427-432.

EcoReference No.: 12073

Chemical of Concern: As,TBF; Habitat: A; Rejection Code: NO ENDPOINT,NO CONTROL(TBF).

75. Mayer, F. L. Jr. and Ellersieck, M. R. (1986). Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. *Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC* 505 p. (USGS Data File).

EcoReference No.: 6797

Chemical of Concern:

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

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Organophosphorus Esters. *J.Agric.Food Chem.* 32: 119-123.

EcoReference No.: 92446

Chemical of Concern: MPO,TBF; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO COC(TBF),NO ENDPOINT(MPO).

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EcoReference No.: 3615

Chemical of Concern: TBF; Habitat: A; Rejection Code: NO ENDPOINT(TBF).

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EcoReference No.: 72333

Chemical of Concern: TBF; Habitat: T; Effect Codes: POP; Rejection Code: NO COC(TBF).

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EcoReference No.: 93301

Chemical of Concern: MLN,CPY,AMZ,PMR,LCYT,PPB,DEET,CBL,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(PMR,PPB,TBF),NO CONTROL(MLN,CPY,CBL).

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EcoReference No.: 92643

Chemical of Concern: TBF,MLN; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(MLN),NO MIXTURE(TBF).

81. Murphy, S. D., Cheever, K. L., Chow, A. Y. K., and Brewster, M. (1976). Organophosphate Insecticide Potentiation by Carboxylesterase Inhibitors. *Proc.Eur.Soc.Toxicol.* 17: 292-300.

EcoReference No.: 93243

Chemical of Concern: MLN,MLO,AZ,MP,PRN,MPO,TBF; Habitat: T; Effect Codes: BCM; Rejection Code: OK(MLN,MLO,AZ,MP,PRN,MPO),NO ENDPOINT(TBF).

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EcoReference No.: 93269

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

83. Osman, A. A., Watson, T. F., and Sivasupramaniam, S. (1991). Susceptibility of Field Populations of Pink Bollworm (*Lepidoptera: Gelechiidae*) to Azinphosmethyl and Permethrin and Synergism of Permethrin. *J.Econ.Entomol.* 84: 358-362 .

EcoReference No.: 93234

Chemical of Concern: AZ,PMR,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(PPB,TBF),OK TARGET(AZ,PMR).

84. Paeporn, P., Komalamisra, N., Deesin, V., Rongsriyam, Y., Eshita, Y., and Thongrungrat, S. (2003). Temephos Resistance in Two Forms of *Aedes aegypti* and Its Significance for the Resistance Mechanism. *Southeast Asian J.Trop.Med.Public Health* 34: 786-792.
- EcoReference No.: 92955
Chemical of Concern: TMP,TBF; Habitat: A; Effect Codes: MOR,REP; Rejection Code: NO MIXTURE(TBF).
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- EcoReference No.: 92958
Chemical of Concern: TMP,TBF; Habitat: A; Effect Codes: MOR,BCM; Rejection Code: NO MIXTURE(TBF).
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- EcoReference No.: 92641
Chemical of Concern: TBF; Habitat: T; Effect Codes: BCM,GRO,PHY; Rejection Code: NO ENDPOINT(TBF).
87. Pasteur, N., Marquine, M., Cheikh, H. B., Bernard, C., and Bourguet, D. (1999). A New Mechanism Conferring Unprecedented High Resistance to Chlorpyrifos in *Culex pipiens* (Diptera: Culicidae). *J.Med.Entomol.* 36: 794-802.
- EcoReference No.: 61955
Chemical of Concern: CPY,TBF,PPB; Habitat: A; Effect Codes: MOR,BCM; Rejection Code: NO CONTROL(CPY),NO MIXTURE(TBF,PPB).
88. Payne, G. T. and Brown, T. M. (1984). EPN and S,S,S-Tributyl Phosphorotrithioate as Synergists of Methyl Parathion in Resistant Tobacco Budworm Larvae (Lepidoptera: Noctuidae). *J.Econ.Entomol.* 77: 294-297.
- EcoReference No.: 92687
Chemical of Concern: MP,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(MP),NO MIXTURE(PPB,TBF).
89. Pimprikar, G. D. and Georgiou, G. P. (1979). Mechanisms of Resistance to Diflubenzuron in the House Fly, *Musca domestica* (L.). *Pestic.Biochem.Physiol.* 12: 10-22.
- EcoReference No.: 92896
Chemical of Concern: MTPN,DFZ,PPB,TBF,DEM; Habitat: T; Effect Codes: ACC,MOR,BCM; Rejection Code: OK TARGET(MTPN),NO MIXTURE(PPB,TBF).
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- EcoReference No.: 93116
Chemical of Concern: DDT,DLD,PYN,CBL,PPB,TBF; Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT(PPB,TBF,TARGET-CBL).
91. Plapp, F. W. Jr. and Tong, H. H. C. (1966). Synergism of Malathion and Parathion Against Resistant Insects: Phosphorus Esters with Synergistic Properties. *J.Econ.Entomol.* 59: 11-15.

EcoReference No.: 93070

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

92. Pospischil, R., Szomm, K., Londershausen, M., Schroder, I., Turberg, A., and Fuchs, R. (1996). Multiple Resistance in the Larger House Fly *Musca domestica* in Germany. *Pestic.Sci.* 48: 333-341.

EcoReference No.: 93122

Chemical of Concern: PYX,UREA,CYF,BCY,TCF,CMPPH,PPX,CYR,TBF; Habitat: T; Effect Codes: MOR,CEL,BCM; Rejection Code: NO COC(TBF),OK TARGET(CYF,CYR).

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EcoReference No.: 92900

Chemical of Concern: TBF,PPB,MXC,DCF,DDT,AZ,ES,PMR,FNV,DM; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(PMR,AZ,FNV),NO MIXTURE(PPB,TBF).

94. Priester, T. M. and Georghiou, G. P. (1980). Cross-Resistance Spectrum in Pyrethroid-Resistant *Culex quinquefasciatus*. *Pestic.Sci.* 11: 617-624 .

EcoReference No.: 92986

Chemical of Concern: TBF,PMR,PPB; Habitat: A; Effect Codes: MOR; Rejection Code: OK(PMR),NO MIXTURE(TBF,PPB).

95. Quistad, G. B. and Casida, J. E. (2004). Lysophospholipase Inhibition by Organophosphorus Toxicants. *Toxicol.Appl.Pharmacol.* 196: 319-326.

EcoReference No.: 92287

Chemical of Concern: TBF; Habitat: T; Effect Codes: BCM; Rejection Code: NO CONTROL(TBF).

96. Quistad, G. B., Sparks, S. E., Segall, Y., Nomura, D. K., and Casida, J. E. (2002). Selective Inhibitors of Fatty Acid Amide Hydrolase Relative to Neuropathy Target Esterase and Acetylcholinesterase: Toxicological Implications. *Toxicol.Appl.Pharmacol.* 179: 57-63.

EcoReference No.: 87217

Chemical of Concern: DMT,CPY,DZ,MP,FNTH,PFF,FNT,TBF; Habitat: T; Effect Codes: MOR,PHY,BCM,BEH; Rejection Code: NO ENDPOINT(MP,TBF),LITE EVAL CODED(DMT,CPY),OK(DZ,FNTH,PFF,FNT).

97. Ramanjaneyulu, R. and Ticku, M. K. (1984). Interactions of Pentamethylenetetrazole and Tetrazole Analogues with the Picrotoxinin Site of the Benzodiazepine-GABA Receptor-Ionophore Complex. *Eur.J.Pharmacol.* 98: 337-345.

EcoReference No.: 92639

Chemical of Concern:TBF; Habitat: T; Effect Codes: BCM,PHY; Rejection Code: NO COC(TBF).

98. Ranasinghe, L. E. and Georghiou, G. P. (1979). Comparative Modification of Insecticide-Resistance Spectrum of *Culex pipiens fatigans* Wied. by Selection with Temephos and Temephos/Synergist Combinations. *Pestic.Sci.* 10: 502-508 .

EcoReference No.: 92984

Chemical of Concern: FNTH,FNT,CPYM,CPY,MLN,CBF,PPB; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(FNTH,FNT,CPYM,CPY,MLN,CBF,PPB),NO COC(TBF).

99. Ray, D. E. (1980). Selective Inhibition of Thermogenesis by Tributyl S,S,S-Phosphorotrithioate (DEF). *Br.J.Pharmacol.* 69: 257-264.
- EcoReference No.: 93206
Chemical of Concern: TBF; Habitat: T; Effect Codes: PHY,BEH,BCM; Rejection Code: NO ENDPOINT(TBF).
100. Reuveny, H. and Cohen, E. (2004). Evaluation of Mechanisms of Azinphos-Methyl Resistance in the Codling Moth *Cydia pomonella* (L.). *Arch.Insect Biochem.Physiol.* 57: 92-100.
- EcoReference No.: 92956
Chemical of Concern: CBL,PIM,ADC,CPY,PPB,TBF,AZ; Habitat: T; Effect Codes: MOR; Rejection Code: NO ENDPOINT,CONTROL(CBL,PIM,ADC,CPY,AZ),NO MIXTURE(PPB,TBF).
101. Richardson, E. R. and Seiber, J. N. (1993). Gas Chromatographic Determination of Organophosphorus Insecticides and Their Dialkyl Phosphate Metabolites in Liver and Kidney Samples. *J.Agric.Food Chem* 41: 416-422.
- EcoReference No.: 92443
Chemical of Concern: DZ,PRN,TBF; Habitat: T; Effect Codes: ACC; Rejection Code: NO COC(TBF),NO CONTROL,ENDPOINT(DZ).
102. Riskallah, M. R. (1983). Esterases and Resistance to Synthetic Pyrethroids in the Egyptian Cotton Leafworm. *Pestic.Biochem.Physiol.* 19: 184-189.
- EcoReference No.: 92980
Chemical of Concern: TBF,FNV; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO CONTROL(TBF,FNV),NO MIXTURE(TBF).
103. Riskallah, M. R. (1984). Influence of Different Synergists on the Toxicity of Some Insecticides to Susceptible and Resistant Larvae of *Spodoptera littoralis* (Boisd.). *Indian J.Agric.Sci.* 54: 126-130.
- EcoReference No.: 92448
Chemical of Concern: CPY,TBF,PPB,FNV; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF,PPB),OK TARGET(CPY,FNV).
104. Riskallah, M. R. (1984). Influence of Posttreatment Temperature on the Toxicity of Pyrethroid Insecticides to Susceptible and Resistant Larvae of the Egyptian Cotton Leafworm, *Spodoptera littoralis* (Boisd.). *Experientia* 40: 188-190.
- EcoReference No.: 92552
Chemical of Concern: CPY,MOM,PMR,FNV,DM,CYP,FYT,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(CPY,MOM,PMR,FNV,CYP),NO COC(TBF).
105. Riskallah, M. R., Abo-Elghar, M. R., Radwan, H. S. A., Nassar, M. E., and Abd-Elghafar, S. F. (1984). Effects of Different Synergists on the Toxicities of Fenvalerate and Decamethrin to Susceptible and Pyrethroid-Resistant Larvae of *Spodoptera littoralis* (Boisd.). *Int.Pest Control* 26: 38-40.
- EcoReference No.: 93304
Chemical of Concern: PPB,TBF,FNV,DCM; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(PPB,TBF),OK TARGET(FNV).
106. Roditakis, E., Tsagkarakou, A., and Vontas, J. (2006). Identification of Mutations in the Para Sodium Channel of *Bemisia tabaci* from Crete, Associated with Resistance to Pyrethroids. *Pestic.Biochem.Physiol.* 85: 161-166.

- EcoReference No.: 92441
Chemical of Concern: IMC,BFT,CYP,TBF,PPB,PIRM,ES; Habitat: T; Effect Codes: BCM,MOR; Rejection Code: NO MIXTURE(PPB,TBF),NO CONTROL(BFT,CYP).
107. Roger, J.-C., Upshall, D. G., and Casida, J. E. (1969). Structure-Activity and Metabolism Studies on Organophosphate Teratogens and Their Alleviating Agents in Developing Hen Eggs with Special Emphasis on Bidrin. *Biochem.Pharmacol.* 18: 373-392.
- EcoReference No.: 93073
Chemical of Concern: AZ,MTN,DDVP,PRN,PPHD,TBF; Habitat: T; Effect Codes: CEL,GRO; Rejection Code: OK(AZ,MTN,PRN),NO COC(TBF).
108. Rupes, V. and Pitnerova, J. (1976). Genetic Analysis of Resistance Factors in a Wild Strain of the House Fly (*Musca domestica*) Resistant to DDT and Some Organophosphorous Insecticides. *Vestn.Cesk.Spol.Zool.* 40: 128-37.
- EcoReference No.: 92894
Chemical of Concern: DDT,TCF,FNT,DMT,DDVP,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-DMT),NO MIXTURE(TBF).
109. Sahali, Y., Jett, C. M., and Murphy, J. J. (1994). Metabolic Fate of S,S,S-Tributyl Phosphorotrithioate (DEF) in the Lactating Goat. *Xenobiotica* 24: 301-313 .
- EcoReference No.: 92362
Chemical of Concern: TBF; Habitat: T; Effect Codes: ACC; Rejection Code: NO CONTROL,ENDPOINT(TBF).
110. Saito, K., Motoyama, N., and Dauterman, W. C. (1992). Effect of Synergists on the Oral and Topical Toxicity of Azamethiphos to Organophosphate-Resistant Houseflies (Diptera: Muscidae). *J.Econ.Entomol.* 85: 1041-1045.
- EcoReference No.: 92700
Chemical of Concern: PPB,TBF,AZM; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(PPB,TBF).
111. Sanchez-Arroyo, H., Koehler, P. G., and Valles, S. M. (2001). Effects of the Synergists Piperonyl Butoxide and S,S,S-Tributyl Phosphorotrithioate on Propoxur Pharmacokinetics in *Blattella germanica* (Blattodea: Blattellidae). *J.Econ.Entomol.* 94: 1209-1216.
- EcoReference No.: 63717
Chemical of Concern: PPB,PPX,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE,ENDPOINT,CONTROL(PPB,TBF).
112. Sanders, H. O. (1969). Toxicity of Pesticides to the Crustacean *Gammarus lacustris*. *Tech.Pap.No.25, U.S.D.I., Bur.Sports Fish.Wildl., Fish Wildl.Serv., Washington, D.C.* 18 p. (Author Communication Used)(Used with Reference 732) (Publ in Part As 6797).
- EcoReference No.: 885
Chemical of Concern: SZ,EDT,24DXY,AZ,CBL,CMPH,CPY,DBN,DMB,DMT,DS,DU,DZ,HCCH,MLN,MLT,Naled,PAQT ,PRT,TFN,RTN,NaN3,ATN,OXD,Captan,TBF; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(CPY,MLN,Naled,OXD,Captan,TBF),LITE EVAL CODED(CBL,AZ,DZ,MLT,SZ,DMT,RTN,NaN3,DMB,PRT,ATN).
113. Sanders, H. O. and Cope, O. B. (1968). The Relative Toxicities of Several Pesticides to Naiads of Three Species of Stoneflies. *Limnol.Oceanogr.* 13: 112-117 (Author Communication Used) (Publ in

Part As 6797).

EcoReference No.: 889

Chemical of Concern:

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

114. Sauphanor, B., Cuany, A., Bouvier, J. C., Brosse, V., Amichot, M., and Berge, J. B. (1997). Mechanism of Resistance to Deltamethrin in *Cydia pomonella* (L.) (Lepidoptera: Tortricidae). *Pestic.Biochem.Physiol.* 58: 109-117.

EcoReference No.: 92440

Chemical of Concern: DM,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(PPB,TBF).

115. Scott, J. G. (1990). Investigating Mechanisms of Insecticide Resistance: Methods, Strategies, and Pitfalls. In: R.T.Roush and B.E.Tabashnik (Eds.), *Pesticide resistance in arthropods*.Routledge, Chapman and Hall: New York, NY 39-57.

EcoReference No.: 93076

Chemical of Concern:TBF; Habitat: T; Rejection Code: NO COC(TBF).

116. Scott, J. G., Croft, B. A., and Wagner, S. W. (1983). Studies on the Mechanism of Permethrin Resistance in *Amblyseius fallacis* (Acarina: Phytoseiidae) Relative to Previous Insecticide use on Apple. *J.Econ.Entomol.* 76: 6-10.

EcoReference No.: 93257

Chemical of Concern: AZ,DDT,PMR,MXC,CBL,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-PMR,AZ,CBL),NO MIXTURE(PPB,TBF).

117. Scott, J. G., Dong, K., Geden, C. J., and Rutz, D. A. (1990). Evaluation of the Biochemical Basis of Insecticide Selectivity Between Host and Parasitoid Species. *Environ.Entomol.* 19: 1722-1725.

EcoReference No.: 93171

Chemical of Concern: PPB,TBF,MLO,PRN,FNV; Habitat: T; Effect Codes: MOR; Rejection Code: OK(MLO),OK TARGET(FNV),NO MIXTURE(PPB,TBF).

118. Scott, J. G. and Georgiou, G. P. (1986). Mechanisms Responsible for High Levels of Permethrin Resistance in the House Fly. *Pestic.Sci.* 17: 195-206 .

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; Habitat: T; Effect Codes: MOR,ACC; Rejection Code: NO MIXTURE(TBF,PPB),OK TARGET(FNV,CYF,SMT,PMR,DMT,MOM,Naled,FVL,BFT,BRSM,ATN).

119. Scott, J. G., Roush, R. T., and Liu, N. (1990). Selection of High-Level Abamectin Resistance from Field-Collected House Flies, *Musca domestica*. *Experientia* 47: 288-291.

EcoReference No.: 93072

Chemical of Concern: PPB,TBF,TVP,ABM,DMT,PMR; Habitat: T; Effect Codes: MOR; Rejection Code: OK(TVP,ABM,DMT,PMR),NO MIXTURE(TBF,PPB).

120. Shan, G., Hammer, R. P., and Ottea, J. A. (1997). Biological Activity of Pyrethroid Analogs in Pyrethroid-Susceptible and -Resistant Tobacco Budworms, *Heliothis virescens* (F.). *J.Agric.Food Chem* 45: 4466-4473.

EcoReference No.: 92442
Chemical of Concern: CYP,TBF,PPB; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF,PPB),OK TARGET(CYP).
121. Shono, T. and Scott, J. G. (2003). Spinosad Resistance in the Housefly, *Musca domestica*, is due to a Recessive Factor on Autosome 1. *Pestic.Biochem.Physiol.* 75: 1-7.

EcoReference No.: 92445
Chemical of Concern: MOM,ABM,DMT,CYF,SS,PPB,TBF,DLD,FPN; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(TBF,PPB),NO CONTROL(MOM,DMT,CYF,FPN).
122. Siegfried, B. D. and Scott, J. G. (1991). Mechanisms Responsible for Propoxur Resistance in the German Cockroach, *Blattella germanica* (L.). *Pestic.Sci.* 33: 133-146.

EcoReference No.: 93113
Chemical of Concern: PPB,TBF,PPX; Habitat: T; Effect Codes: ACC,MOR; Rejection Code: NO MIXTURE(PPB,TBF).
123. Silver, E. H. and Murphy, S. D. (1978). Effect of Carboxylesterase Inhibitors on the Acute Hepatotoxicity of Esters of Allyl Alcohol. *Toxicol.Appl.Pharmacol.* 45: 377-389.

EcoReference No.: 93170
Chemical of Concern: TBF; Habitat: T; Effect Codes: GRO,BCM; Rejection Code: NO ENDPOINT,MIXTURE(TBF).
124. Skrinjaric-Spoljar, M., Matthews, H. B., Engel, J. L., and Casida, J. E. (1971). Response of Hepatic Microsomal Mixed-Function Oxidases to Various Types of Insecticide Chemical Synergists Administered to Mice. *Biochem.Pharmacol.* 20: 1607-1618.

EcoReference No.: 93207
Chemical of Concern: TBF,RTN,PPB,CMPH; Habitat: T; Effect Codes: BCM,BEH; Rejection Code: NO ENDPOINT(TBF,RTN).
125. Sparks, S. E., Quistad, G. B., and Casida, J. E. (1998). Organophosphorus Pesticide-Induced Butyrylcholinesterase Inhibition and Potentiation of Succinylcholine Toxicity in Mice. *J.Biochem.Mol.Toxicol.* 13: 113-118.

EcoReference No.: 93119
Chemical of Concern: DMT,CBL,PRN,PFF,TBF,CPY,EPH; Habitat: T; Effect Codes: BCM; Rejection Code: NO CONTROL(DMT,CBL,TBF,CPY).
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EcoReference No.: 93231
Chemical of Concern: CYH,PIRM,PMR,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(PPB,TBF),OK TARGET(PMR).
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Chemical of Concern: MLO,MLN,PPB,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: OK
TARGET(MLN),NO MIXTURE(TBF,PPB),OK(MLO).
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- EcoReference No.: 16202
Chemical of Concern: TBF,FNTH,CPY,PRN; Habitat: A; Effect Codes: MOR; Rejection Code: NO
MIXTURE(CPY,TBF).
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Chemical of Concern: CPY,TBF; Habitat: A; Effect Codes: POP,MOR; Rejection Code: NO
ENDPOINT(TBF,CPY).
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Chemical of Concern: MOM,CBL,CBF,FNV,PMR,PPX,MP,MLN,DM,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: OK
TARGET(FNV),OK(MOM,CBL,CBF,PMR,PPX,MP,MLN,DM),NO COC(TBF).
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- EcoReference No.: 93259
Chemical of Concern: AZ,CBF,MP,MPO,TBF,PPB; Habitat: T; Effect Codes: MOR; Rejection Code: OK
TARGET(AZ,MP,MPO),OK(CBF),NO MIXTURE(TBF,PPB).
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Chemical of Concern: BDC,PPY,CPY,CYP,PMR,TBF,PPB; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO
MIXTURE(PPB,TBF),NO CONTROL(TARGET-CPY,CYP,PMR).
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Chemical of Concern: PPB,TBF,FNV,AZ,MCB,ES; Habitat: T; Effect Codes: MOR,BCM,ACC; Rejection Code: NO
MIXTURE(PPB,TBF),OK TARGET(FNV,AZ).
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Chemical of Concern: DFZ,TBF,PPB,PFF; Habitat: T; Rejection Code: NO MIXTURE(PPB,TBF).

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Chemical of Concern: PPB,TBF,FNV,AZ,CYP,FYT,CYF; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(TARGET-CYF,CFP,AZ,FNV),NO MIXTURE(PPB,TBF).
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Chemical of Concern: PPB,TBF,ABM,MOM,SS,FNV,CYF; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(MOM,FNV,CYF),NO MIXTURE(PPB,TBF).
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Chemical of Concern: AZ,MLN,LCYT,BFT,CYF,ES,ZCYP,MDT,FPP,MP,ABM,PPB,TBF; Habitat: T; Effect Codes: MOR,POP; Rejection Code: NO ENDPOINT(TARGET-AZ,MLN,CYF,BFT),NO COC(TBF),OK TARGET(PPB,MP).
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Chemical of Concern: TBF,PMR,PPB,TPT; Habitat: A; Effect Codes: MOR,CEL; Rejection Code: OK(PMR),NO MIXTURE(TBF,PPB).
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Chemical of Concern: ACP,CBL,DMT,MTM,MTAS,CPY,MP,MOM,FNV,BMY,TBF; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(ACP,CBL,DMT,MTM,CPY,MP,MOM,FNV),NO ENDPOINT(MTAS),NO COC(TBF).

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