

Appendix D. OXYDEMETON-METHYL (ODM)

Papers that Were Accepted for ECOTOX but Not Included in the Risk Assessment

Acceptable for ECOTOX and OPP but Not Included in the Risk Assessment for CRLF

The following papers did not provide further information for estimating or characterizing risk.

1. 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,CMPH; Habitat: T; Effect Codes: MOR,GRO,BEH,REP,BCM; Rejection Code: LITE EVAL CODED(OXD),OK(ALL CHEMS).
2. 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),OK(ALL CHEMS).
3. Clemens, G. R., Hartnagel, R. E., Bare, J. J., and Thyssen, J. H. (1990). Teratological, Neurochemical, and Postnatal Neurobehavioral Assessment of Metasystox-R, an Organophosphate Pesticide in the Rat. *Fundam.Appl.Toxicol.* 14: 131-143.

EcoReference No.: 88987
Chemical of Concern: OXD; Habitat: T; Effect Codes: MOR,POP,BEH,GRO,BCM,REP; Rejection Code: LITE EVAL CODED(OXD).
4. Lal, O. P. (1992). Evaluation of Certain Insecticides Against the Pest Complex of French Bean Seed Crop Under Field Conditions. *J.Entomol.Res.* 16: 57-61.

EcoReference No.: 89083
Chemical of Concern: DMT,OXD,ES,MLN,PPHD,DDVP; Habitat: T; Effect Codes: POP,MOR; Rejection Code: LITE EVAL CODED(OXD,MLN),OK(DMT,ES,PPHD,DDVP).
5. Munshi, S. K., Kumari, A., Sanadi, S., Bakhietia, D. R. C., and Sukhija, P. S. (1987). Influence of Systemic Insecticides on Lipid Biosynthesis in Seeds of Indian Mustard (*Brassica juncea* L.). *Plant Sci.* 53: 201-208.

EcoReference No.: 75498
Chemical of Concern: DMT,PRT,OXD; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(PRT,OXD),OK(DMT).
6. Rahman, M. F., Sharma, G. K., and Alam, M. M. (1988). Evaluation of Nematicidal Potential in Two Insecticides Against the Root-Knot Nematode, *Meloidogyne incognita* Attacking Tomato. *Pak.J.Nematol.* 6: 79-82.

EcoReference No.: 88889
Chemical of Concern: OXD,PPHD; Habitat: T; Effect Codes: MOR,POP; Rejection Code: LITE EVAL CODED(OXD),OK(PPHD).
7. Raizada, R. B., Srivastava, M. K., Singh, R. P., Kaushal, R. A., Gupta, K. P., and Dikshith, T. S. S. (1993).

Interaction of Technical Hexachlorocyclohexane and Oxydemeton Methyl 25 EC to Female Rats After Dermal Application. *Indian J.Exp.Biol.* 31: 142-146.

EcoReference No.: 89143

Chemical of Concern: HCCH,OXD; Habitat: T; Effect Codes: PHY,MOR,GRO,CEL,BCM; Rejection Code: LITE EVAL CODED(OXD),OK(HCCH).

8. Rajapakse, R. and Jayasena, K. W. (1989). Investigations on the Vectors of the Leaf Curl of Chilli Pepper (*Capsicum annum* L.) and Tomato (*Lycopersicon esculentum* Mill.). *Intern.J.Trop.Agric.* 7: 274-280.

EcoReference No.: 89391

Chemical of Concern: PIRM,OXD,TDC,CPY; Habitat: T; Effect Codes: POP,PHY; Rejection Code: LITE EVAL CODED(OXD,TDC),OK(PIRM,CPY).

9. Sharma, R., Dhaliwal, S. S., and Chandurkar, P. S. (1997). Evaluation of Chemical and Botanical Nematicides for Nematode Management on Brinjal. *Indian J.Plant Prot.* 25: 4-7.

EcoReference No.: 89394

Chemical of Concern: OXD,DMT,MOM,PRT,AZD; Habitat: T; Effect Codes: GRO,POP; Rejection Code: LITE EVAL CODED(OXD,MOM),OK(DMT,PRT,AZD).

10. Thomas, J. and Phadke, K. G. (1994). Relative Toxicity of Oxydemetonmethyl, Chlorpyrifos and Quinalphos to Honey-Bee (*Apis cerana indica*). *Indian J.Agric.Sci.* 64: 207-209.

EcoReference No.: 89618

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

11. Upadhyay, S. and Agrawal, R. K. (1993). Efficacy of Different Insecticides on Incidence of Mustard Aphid (*Lipaphis erysimi*) on Indian Mustard (*Brassica juncea*) and Its Economics. *Indian J.Agric.Sci.* 63: 522-525.

EcoReference No.: 89234

Chemical of Concern: CYP,FNV,ES,PPHD,OXD,DMT,CPY,MLN; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(OXD,MLN),OK(ALL CHEMS).

Acceptable for ECOTOX but not OPP

1. Ali, M. I. and Karim, M. A. (1991). Rational Insecticide Use for the Control of the Cotton Jassid, *Amrasca biguttula* (Shir) (Cicadelidae, Homoptera) and the Spotted Bollworm, *Earias vitella* (F.) (Noctuidae, Lepidoptera) on Cotton in Bangladesh. *Trop.Pest Manag.* 37: 66-70.

EcoReference No.: 88897

Chemical of Concern: DMT,CYP,OXD; Habitat: T; Effect Codes: POP; Rejection Code: OK TARGET(OXD),OK(DMT,CYP).

2. Bal, R. S., Duhra, M. S., and Singh, B. (1995). Efficacy of Insecticides in Controlling Thrips (*Haplothrips ganglbaueri* and *Fulmekiola serrata*) of Sugarcane (*Saccharum officinarum*). *Indian J.Agric.Sci.* 65: 226-227.

EcoReference No.: 89298

Chemical of Concern: MLN,DMT,ES,OXD; Habitat: T; Effect Codes: POP; Rejection Code: OK(DMT,ES),OK TARGET(MLN,OXD).

3. Butler, P. A. (1963). Commercial Fisheries Investigations. *Circ.No.167, Fish Wildl.Serv., Washington, D.C.* 11-25.

EcoReference No.: 2188

Chemical of Concern:

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

4. Dhamdhare, S. V., Bahadur, J., and Misra, U. S. (1987). Studies on Persistence and Toxicity of Carbamate Insecticides Against *Amrasca biguttula biguttula* Ishida Infesting Okra. *PKV Res.J.* 11: 97-99.

EcoReference No.: 89464

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

5. Dhamdhare, S. V., Bahadur, J., and Misra, U. S. (1987). Studies on Persistence and Toxicity of Carbamate Insecticides Against *Amrasca biguttula biguttula* Ishida (Hemiptera: Cicadellidae) Infesting Okra. *J.Entomol.Res.* 11: 189-191 .

EcoReference No.: 88894

Chemical of Concern: CBL,OXD,TDC; Habitat: T; Effect Codes: MOR,POP; Rejection Code: OK TARGET(CBL,TDC,OXD).

6. Elzen, G. W. (1992). Cotton Aphid Control, 1990. *Insectic.Acaric.Tests* 221-222 (58F).

EcoReference No.: 79272

Chemical of Concern: MP,ES,CPY,DS,CYF,MTM,BFT,ACP,EFV,OXD; Habitat: T; Effect Codes: POP; Rejection Code: OK(ALL CHEMS),OK TARGET(MTM,OXD).

7. Elzen, G. W. (1991). Cotton *Gossypium-hirsutum* L. Des 119 Bollworm *Helicoverpa-zea* Boddie Tobacco Budworm *Heliothis-virescens* F. Control of Tobacco Budworm and Bollworm, 1989. *Insecticid.Acaric.Tests* 182.

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

8. Fogal, W. H. and Plowman, V. C. (1989). Systemic Insecticides for Protecting Northern Spruce and Pine Seed Trees. *Can.Petawawa Natl.For.Inst.Inf.Rep.PI-X* 92: 1-17.

Chemical of Concern: MOM,OXD; Habitat: T; Rejection Code: TARGET(MOM,OXD).

9. Gaines, T. B. (1969). Acute Toxicity of Pesticides. *Toxicol.Appl.Pharmacol.* 14: 515-534.

EcoReference No.: 36729

Chemical of Concern:

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

10. Jhala, R. C., Patel, K. G., Patel, C. B., and Shah, A. H. (1990). Field Efficacy of Different Insecticides for the Control of Mango Leaf-Gall Midge *Procontarinia matteiana* Kieffer and Cecconi . *Int.Pest Control* 32: 40-41.

EcoReference No.: 89280

Chemical of Concern: DMT,MLN,ES,MP,OXD,PPHD; Habitat: T; Effect Codes: POP; Rejection Code: OK(DMT,ES,MP,PPHD),OK TARGET(OXD,MLN).

11. Mayer, D. F., Johansen, C. A., Lunden, J. D., and Rathbone, L. (1987). Bee Hazard of Insecticides Combined

with Chemical Stickers. *Am.Bee J.* 127: 493-495.

EcoReference No.: 88509

Chemical of Concern:

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

12. Prakash, A. and Bhattacharya, R. (1993). Investigations on Downward Translocation of BPMC in Rice. *J.Insect Sci.(Lunhiana)* 6: 146-147.

EcoReference No.: 85965

Chemical of Concern: DZ,OXD,FNT,PPHD,CBF; Habitat: AT; Effect Codes: MOR,PHY; Rejection Code: NO CONTROL(ALL CHEMS).

13. Rao, B. N., Sultan, M. A., and Reddy, K. N. (1990). Residues of Dimethoate, Oxydemeton-Methyl and Carbofuran in Grape Berries, *Vitis vinifera*. *J.Insect Sci.* 3: 192-193.

Chemical of Concern: CBF,OXD; Habitat: T; Rejection Code: TARGET(OXD,CBF).

14. Reardon, R. C. and Barrett, L. (1984). Effects of Treating Western Spruce Budworm Populations on Grand Fir and Douglas-Fir with Acephate, Carbofuran, Dimethoate, Oxydemeton-Methyl, and Methamidophos. *For.Ecol.Manag.* 8: 1-10.

Chemical of Concern: CBF,OXD; Habitat: T; Rejection Code: TARGET(OXD,CBF).

15. Reddy, M. S. and Rao, K. V. R. (1992). Toxicity of Selected Insecticides to the Penaeid Prawn, *Metapenaeus monoceros* (Fabricius). *Bull.EnvIRON.Contam.Toxicol.* 48: 622-629.

EcoReference No.: 14969

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

16. Royer, T. A., Edelson, J. V., and Cartwright, B. (1987). Worm Control on Cabbage, 1985. *Insectic.Acaric.Tests* 12: 103 (No. 109).

EcoReference No.: 88726

Chemical of Concern:

EFV,CYF,PMR,MTM,CPY,MOM,ES,CBL,MLN,DZ,MP,AZ,FVL,MVP,DMT,MXC,OXD,Naled;
Habitat: T; Effect Codes: POP; Rejection Code: OK TARGET(ALL CHEMS).

17. Udeaan, A. S. and Narang, D. D. (1988). A Survey of Mustard Aphid, *Lipaphis erysimi* (Kalt.) Populations for Resistance to Insecticides in Punjab. *J.Res.Punjab Agric.Univ.* 25: 77-80.

EcoReference No.: 89463

Chemical of Concern: MLN,ES,OXD,DMT; Habitat: T; Effect Codes: MOR; Rejection Code: OK(ES,DMT),OK TARGET(MLN,OXD).

18. Yu, S. J. (1986). Host Plant Induction of Microsomal Monooxygenases in Relation to Organophosphate Activation in Fall Armyworm Larvae. In: *4th Symp.on the Fall Armyworm held at the Entomol.Soc.of Am.Natl.Conf., 1985, Hollywood, FL, Fla.Entomol.* 69: 579-587.

EcoReference No.: 88898

Chemical of Concern: OXD,MLN,IFP,DEM,DS,FNTH,PRT,DZ,PRN; Habitat: T; Effect Codes: BCM,MOR; Rejection Code: OK(ALL CHEMS),OK TARGET(MLN,OXD,DZ).