APPENDIX L.

OPEN LITERATURE ECOTOXICITY (ECOTOX) INFORMATION

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.

Papers that Were Accepted for ECOTOX

*** = Efficacy and/or other papers that had no appropriate endpoints for consideration.**

The studies that have additional explanations are those that had potential endpoints of interest and were more closely examined. The remainder of the studies either had endpoints that were higher than those used from the studies submitted to the Agency, the endpoint was not relevant to assessment of risk to the CRLF (for example, marine/estuarine endpoints) or the quantitative expression of exposure could not be translated such that it could be compared to the endpoints used in assessment of risk.

Acceptable for ECOTOX and OPP

*1. Appleby, A. P., Furtick, W. R., and Fang, S. C. (1965). Soil Placement Studies with EPTC on Avena sativa. *Weed Res.* 5: 115-122.

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

*2. Arnold, R. N., Murray, M. W., Gregory, E. J., and Smeal, D. (1993). Weed Control in Pinto Beans (Phaseolus vulgaris) with Imazethapyr Combinations. *Weed Technol.* 7: 361-364.

EcoReference No.: 74060
Chemical of Concern: MTL,EPTC,TFN,PDM,IZT; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE,TARGET(MTL),TARGET(EPTC).

*3. Ashton, F. M. and Dunster, K. (1961). The Herbicidal Effect of EPTC, CDEC, and CDAA on Echinochloa crusgalli with Various Depths of Soil Incorporation. *Weeds* 9: 312-317.

EcoReference No.: 47106
Chemical of Concern: EPTC; Habitat: T; Effect Codes: GRO,PHY; Rejection Code: TARGET(EPTC).

*4. Ashton, F. M. and Sheets, T. J. (1959). The Relationships of Soil Absorption of EPTC to Oats Injury in Various Soil Types. *Weeds* 7: 88-90.

EcoReference No.: 47105
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*5. Barta, I. C. and Dutka, F. (1989). Effects of Thiocarbamate Herbicides and Dichlormid Antidote of Cuticular Transpiration of Corn. *Cereal Res.Commun.* 17: 135-140.

EcoReference No.: 74426
Chemical of Concern: PCB,CYC,VNT,BTY,MLT,EPTC; Habitat: T; Effect Codes: GRO; Rejection Code: NO ENDPOINT,NO SPECIES(PCB),TARGET(EPTC).

*6. Bean, B. W., Roeth, F. W., Martin, A. R., and Wilson, R. G. (1988). Duration of Enhanced Soil Degradation of Eptc As Influenced by Herbicide Rotation, Time, and Location. *Weed Sci.* 36: 524-530.

EcoReference No.: 32472
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*7. Bell, C. E. (1986). Prairie Cupgrass (Eriochloa Contracta Hitchc.) Control in Established Alfalfa with EPTC. *P W S Wd S* 39: 201-208.

EcoReference No.: 31047
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

8. Buhl, K. J. and Faerber, N. L. (1989). Acute Toxicity of Selected Herbicides and Surfactants to Larvae of the Midge Chironomus riparius. *Arch.Environ.Contam.Toxicol.* 18: 530-536.

EcoReference No.: 3914
Chemical of Concern: ACR,BMN,GYP,MBZ,DMM,BTY,PCH,TRL,EPTC; Habitat: A; Effect Codes: PHY,MOR; Rejection Code: LITE EVAL CODED(EPTC,GYP).

*9. Buhler, D. D. (1987). Influence of Application Method on the Activity of Butylate and Eptc in Reduced-Tillage Corn (Zea mays). *Weed Sci.* 35: 412-417.

EcoReference No.: 31007
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*10. Bujtas, G. Y. (1978). Eptc Notoznyagu Herbicid Es Antidotumjanak Hatasa A Cedia Membranpermeabilitasara. *Novenyterme* 27: 223-229.

EcoReference No.: 26528
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

11. 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,24DXYBEE,24D,DMDP; Habitat: A; Effect Codes: MOR,GRO,POP; Rejection Code: LITE EVAL CODED(DCPA,EPTC,24DXYBEE,PRO,ATZ,MLT,ACL,TBF),NO ENDPOINT(24D,DMDP).

This study has higher endpoints for oysters and fish and a lower endpoint for shrimp; however, there is only a summary table with insufficient details to assess the study, including the % active ingredient. It says Eptam, which could have been a formulation. Therefore, this study was not used for endpoint selection.

12. Cerkauskas, R. F., Verma, P. R., and McKenzie, D. L. (1986). Effects of Herbicides on In Vitro Growth and Carpogenic Germination of Sclerotinia sclerotiorum. *Can.J.Plant Pathol.* 8: 161-166.

EcoReference No.: 98275
Chemical of Concern: 24D,24DB,ACR,ATZ,BMN,CZE,DFPM,EPTC,EFL,FZFB,GYPI,MBZ,SXD,TFN; Habitat: T; Effect Codes: GRO,REP,POP; Rejection Code: LITE EVAL CODED(EPTC),OK(24D,24DB,ACR,ATZ,GYPI,SXD).

*13.Cole, D. F. and Dexter, A. G. (1986). Effect of Multiple Pesticide Treatments on Sugar Beet Yield and Quality. *J.Am.Soc.Sugar Beet Technol.* 23: 109-115.

EcoReference No.: 74545

Chemical of Concern: ADC,DDP,EPTC; Habitat: T; Effect Codes: POP,BCM; Rejection Code: LITE EVAL CODED(ADC),TARGET(EPTC).

*14. Cottingham, C. K., Hatzios, K. K., and Meredith, S. A. (1993). Comparative Responses of Selected Corn (Zea mays L.) Hybrids to EPTC and Metolachlor. *Weed Sci.* 33: 161-170.

EcoReference No.: 74006
Chemical of Concern: MTL,EPTC; Habitat: T; Effect Codes: GRO,BCM; Rejection Code: TARGET(MTL,EPTC).

*15. De Almeida, F. S. and Fonseca, A. M. (1967). Contribution to the Study of the Effectiveness of EPTC on Cyperus rotundus l. *Agron.Mocambicana* 1: 215-221.

EcoReference No.: 29894
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*16. Dolzhikova, N. M., Slovtsov, R. I., and Gruzdev, G. S. (1977). The Effect of the Herbicides Eptam, Tca, Hexilur and Their Combinations on the Growth and Yield of Sugar Beets. *Izv Timi Ak* 4: 165-172.

EcoReference No.: 28850
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

17. Eigenbrode, S. D. and Shelton, A. M. (1992). Survival and Behavior of Plutella xylostella Larvae on Cabbages with Leaf Waxes Altered by Treatment with S-Ethyl Dipropylthiocarbamate. *Entomol.Exp.Appl.* 62: 139-145.

EcoReference No.: 98227
Chemical of Concern: EPTC; Habitat: T; Effect Codes: BCM,MOR,BEH; Rejection Code: LITE EVAL CODED(EPTC).

18. Eigenbrode, S. D., Shelton, A. M., Kain, W. C., Leichtweis, H., and Spittler, T. D. (1993). Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide. *Entomol.Exp.Appl.* 69: 41-50.

EcoReference No.: 98228
Chemical of Concern: EPTC,PMR; Habitat: T; Effect Codes: GRO,MOR,POP,ACC; Rejection Code: LITE EVAL CODED(EPTC,PMR).

19. El-Ibrashy, M. T. (1971). The Herbicide Eptam 6-E: A Selective Female Chemosterilant for the Egyptian Cotton Leafworm, Spodoptera littoralis. *Experientia* 27: 808-809.

EcoReference No.: 71141
Chemical of Concern: EPTC; Habitat: T; Effect Codes: GRO,REP,MOR; Rejection Code: LITE EVAL CODED(EPTC).

20. Fairchild, J. F., Ruessler, D. S., Haverland, P. S., and Carlson, A. R. (1997). Comparative Sensitivity of Selenastrum capricornutum and Lemna minor to Sixteen Herbicides. *Arch.Environ.Contam.Toxicol.* 32: 353-357.

EcoReference No.: 18093
Chemical of Concern: 24DXY,ACR,ATZ,BMN,MBZ,MTL,PAQT,SZ,DMM,TFN,EPTC; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(EPTC,24DXY,ATZ,MTL,SZ).

*21. Fedtke, C. (1987). Physiological Activity Spectra of Existing Graminicides and the New Herbicide 2-(2-Benzothiazolyl-oxy)-N-Methyl-N-Phenylactamide (Mefenacet). *Weed Res.* 27: 221-228.

EcoReference No.: 74003
Chemical of Concern: MTL,ACR,BTC,PCH,TBC,TRL,FZFB,SXD,CYC,EPTC,TFN,HFP,CBL; Habitat: T; Effect Codes: POP,GRO; Rejection Code: TARGET (MTL,SXD,CBL,EPTC).

22. Felix, H. R., Chollet, R., and Harr, J. (1988). Use of the Cell Wall-Less Alga Dunaliella bioculata in Herbicide Screening Tests. *Ann.Appl.Biol.* 113: 55-60.

EcoReference No.: 13100
Chemical of Concern: 24DXY,ACR,ATZ,DBN,DU,GYP,NFZ,OXF,OYZ,TFN,SXD,ASM,AMTL,PAQT,NFZ,EPTC,FZFB, ACF,CSF; Habitat: A; Effect Codes: MOR,POP; Rejection Code: LITE EVAL CODED(OXF,EPTC,OYZ),NO ENDPOINT(GYP).

23. Feyaerts, H., Coosemans, J., and Vander Elst, I. (1990). Synergistic Activity of Thiocarbamate Herbicides, Used Together with Carbamate Nematicides in the Control of Root Knot Nematodes (Meloidogyne). *Med.Fac.Landbouww.Rijksuniv.Gent.* 55: 745-752.

EcoReference No.: 98742
Chemical of Concern: CBF,OML,ADC,EPTC; Habitat: T; Effect Codes: POP,GRO,REP; Rejection Code: LITE EVAL CODED(EPTC),NO CONTROL(CBF,OML,ADC).

*24. Gaillardon, P., Simon, S., and Scalla, R. (1988). Influence of Depth of Sowing, Herbicide Incorporation and Temperature on Metolachlor and EPTC Toxicity to Corn (Zea mays L.). *Agronomie* 8: 585-590.

EcoReference No.: 73992
Chemical of Concern: MTL,EPTC; Habitat: T; Effect Codes: GRO; Rejection Code: TARGET(MTL,EPTC).

*25. Gentner, W. A. (1962). The (Inhibitory) Influence of Ethyl N, N-Di-n-Propylthiolcarba Te (EPTC) on Wax Formation in Cabbage. *Geowash U B* 62: 38-39.

EcoReference No.: 30743
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*26. Ghosheh, H. Z. and Chandler, J. M. (1998). Johnsongrass (Sorghum halepense) Control Systems for Field Corn (Zea mays) Utilizing Crop Rotation and Herbicides. *Weed Technol.* 12: 623-630.

EcoReference No.: 73939
Chemical of Concern: MTL,EPTC,NSF,GYP; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL),TARGET(MTL,GYP,EPTC).

27. Gilbertson, R. L., Ruppel, E. G., and Schweizer, E. E. (1987). Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi. *Plant Dis.* 71: 627-629.

EcoReference No.: 98843
Chemical of Concern: EPTC,TFL; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(EPTC),NO MIXTURE(TFL).

28. Girman, G. R. (1975). The Effects of a Number of Herbicides upon Photosynthesis and Heterotrophy of Naturally Occurring Algal and Bacterial Communities in Delta Marsh, Manitoba. *M.S.Thesis, University of Manitoba, Winnipeg, Manitoba* 179 p.

EcoReference No.: 13583
Chemical of Concern: 24D,MCPA,SZ,ATZ,AMTL,LNR,EPTC,TRL,PAQT,CuS; Habitat: A; Effect Codes: PHY; Rejection Code: LITE EVAL CODED(EPTC,ATZ,SZ,LNR),OK(24D,CuS).

Most of the endpoints in this study are above the endpoints from the submitted study. There is one endpoint below the endpoint selected from the submitted studies; however, there is a great deal of variability associated with this endpoint. Therefore, this study was not used for endpoint selection.

*29. Gray, R. A. and Weierich, A. J. (1969). Importance of Root, Shoot, and Seed Exposure on the Herbicidal Activity of EPTC. *Weed Sci.* 17: 223-229.

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

30. Hart, B. W. and Faiman, M. D. (1995). Inhibition of Rat Liver Low Km Aldehyde Dehydrogenase by Thiocarbamate Herbicides. Occupational Implications. *Biochem.Pharmacol.* 49: 157-163.

EcoReference No.: 73593
Chemical of Concern: MLT,EPTC,BTY,VRN; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(EPTC),OK(MLT).

*31. Hauser, E. W. (1963). Response of Purple Nutsedge to Amitrole, 2,4,-D and Eptc. *Weeds* 11: 251-252.

EcoReference No.: 26057
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*32. Heuer, B. and Carmi, A. (1992). Nitrogen-Enhanced Phytotoxicity to Cucumber of Low Concentrations of EPTC and Metolachlor. *Crop Prot.* 11: 572-576.

EcoReference No.: 73352
Chemical of Concern: MTL,EPTC; Habitat: T; Effect Codes: BCM,GRO; Rejection Code: LITE EVAL CODED(MTL)TARGET(EPTC).

*33. Hoyt, G. D. (1995). Applying Butylate- and EPTC-Impregnated Fertilizer to a Cover Crop for Week Control in No-Till Corn, Zea mays, L. *Crop Prot.* 14: 75-79.

EcoReference No.: 73247
Chemical of Concern: MTL,ATZ,ACR,EPTC; Habitat: T; Effect Codes: POP,PHY; Rejection Code: NO MIXTURE(MTL,ATZ,TARGET-MTL),TARGET(EPTC).

34. Hulzebos, E. M., Adema, D. M. M., Dirven-Van Breemen, E. M., Henzen, L., Van Dis, W. A., Herbold, H. A., Hoekstra, J. A., Baerselman, R., and Van Gestel, C. A. M. (1993). Phytotoxicity Studies with Lactuca sativa in Soil and Nutrient Solution. *Environ.Toxicol.Chem.* 12: 1079-1094.

EcoReference No.: 46533
Chemical of Concern: PCP,PAH,AZ,AMSV,NAPH,DCB,ACE,BPH,EPTC; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(EPTC,BPH,ACE,AZ,DCB,NAPH,PCP,AMSV).

*35. Ibrahim, A. F., Shaban, S. A., and El-Metwally, E. A. (1987). Effect of Some Herbicides on Oil Seed Rape (Brassica napus L.) and Associated Weeds. *J.Agron.Crop Sci.* 158: 236-240.

EcoReference No.: 73787
Chemical of Concern: MTL,ACR,PDM,ODZ,EPTC; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL),TARGET(MTL,EPTC).

*36. Jablonkai, I. (1991). Basis for Differential Chemical Selectivity of MG 191 Safener Against Acetochlor and EPTC Injury to Maize. *Z.Naturforsch Sect.C* 46: 836-845.

Chemical of Concern: ACO,EPTC; Habitat: T; Rejection Code: TARGET (ACO,EPTC).

*37.Jablonkai, L. and Hatzios, K. K. (1994). Microsomal Oxidation of the Herbicides EPTC and Acetochlor and of the Safener MG-191 Maize. *Pestic.Biochem.Physiol.* 48: 98-109.

Chemical of Concern: ACO,EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*38.James, T. K. and Atkinson, G. C. (1978). Herbicide Tolerance of Sainfoin. *Proc.N.Z.Weed Control Conf.* 31: 121-123.

EcoReference No.: 25882
Chemical of Concern: TFN,EPTC,24DB,MCPB,PZM,PAQT,CZE,SZ,MBZ,TRB,OYZ; Habitat: T; Effect Codes: POP,PHY; Rejection Code: TARGET(PZM,OYZ,SZ,EPTC).

39. Johnson, A. W., Smittle, D. A., Sumner, D. R., and Glaze, N. C. (1994). Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production. *J.Nematol.* 26: 690-696.

EcoReference No.: 98330
Chemical of Concern: EPTC; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(EPTC).

40. Jordaan, E. M. and De Waele, D. (1988). Effects of Four Herbicides on the Infestation of Maize by the Nematode Pratylenchus zeae. *S.Afr.J.Plant Soil* 5: 165.

EcoReference No.: 98825
Chemical of Concern: 24D,EPTC,ACR,ATZ; Habitat: T; Effect Codes: POP,REP,GRO; Rejection Code: LITE EVAL CODED(EPTC),OK(24D,ACR,ATZ).

*41.Kerstiens, G. (1997). In Vivo Manipulation of Cuticular Water Permeance and Its Effect on Stomatal Response to Air Humidity. *New Phytol.* 137: 473-480.

EcoReference No.: 93665
Chemical of Concern: CYC,EPTC,CF; Habitat: T; Effect Codes: BCM,PHY; Rejection Code: NO COC(DPDP),TARGET(EPTC).

*42.Khan, M. and Saghir, A. R. (1989). Residual Activity of Triazines and Some Other Herbicides in the Soil. *Sarhad J.Agric.* 5: 591-595.

EcoReference No.: 80144
Chemical of Concern: ATZ,ACR,CZE,DMB,MBZ,EPTC; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(ATZ,EPTC),OK(ALL CHEMS).

*43.Komives, T., Hulesch, A., Komives, A. V., and Dutka, F. (1987). Effects of S Ethyl-N N-Dipropylthiocarbamate EPTC on Normal and Dwarf Seedlings of Zea-mays L. *Biochem.Physiol.Pflanz (BPP)* 182: 257-260.

Chemical of Concern: PPG,EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

44. Kowalska-Wochna, E. and Pawlowska, D. (1988). In Vivo Analysis of Eptam Genotoxic Action on Mouse (Mus musculus) Chromosomes. *Genet.Pol.* 29: 171-180 .

EcoReference No.: 98826
Chemical of Concern: EPTC; Habitat: T; Effect Codes: CEL,BEH; Rejection Code: LITE EVAL CODED(EPTC).

*45.Krishnasamy, S. M., Pothiraj, P., Palaniappan, S., and Sheriff, M. M. (1988). Cucumber Bio-assay Studies on the Residual Effect of Herbicides Applied to Rice. *Indian J.Agron.* 33: 450-451.

EcoReference No.: 74401
Chemical of Concern: ANL,BTC,MLT,TBC,EPTC,FXP; Habitat: T; Rejection Code: TARGET(EPTC).

*46.Lay, M. M. and Niland, A. M. (1985). Biochemical Response of Inbred and Hybrid Corn (Zea mays L.) to R-25788 and Its Distribution with EPTC in Corn Seedlings. *Pestic.Biochem.Physiol.* 23: 131-140.

EcoReference No.: 80222
Chemical of Concern: ATZ,EPTC; Habitat: T; Effect Codes: PHY,BCM,CEL; Rejection Code: TARGET(ATZ,EPTC).

*47.McClurg, C. A. and Bergman, E. L. (1972). Influence of Selected Pesticides on Leaf Elemental Content and Yield of Garden Beans (Phaseolus vulgaris L.). *J.Environ.Qual.* 1: 200-203.

EcoReference No.: 52039
Chemical of Concern: PCH,DCPA,EPTC,TFN,BMY,DS; Habitat: T; Effect Codes: POP,GRO,BCM,PHY; Rejection Code: LITE EVAL CODED(DS),TARGET(DCPA,EPTC).

*48.McMullan, P. M. and Blackshaw, R. E. (1995). Postemergence Green Foxtail (Setaria viridis) Control in Corn (Zea mays) in Western Canada. *Weed Technol.* 9: 37-43.

EcoReference No.: 73801
Chemical of Concern: MTL,CZE,EPTC,NSF,RIM; Habitat: T; Effect Codes: POP,PHY; Rejection Code: LITE EVAL CODED(MTL),TARGET(EPTC).

*49.Menges, R. M. and Hubbard, J. L. (1966). Herbicidal Performances of Cdec and Eptc Incorporated to Various Depths in Furrow-Irrigated Soils. *Weeds* 14: 215-219.

EcoReference No.: 28003
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

50. Michel, A., Johnson, R. D., Duke, S. O., and Scheffler, B. E. (2004). Dose-Response Relationships Between Herbicides with Different Modes of Action and Growth of Lemna paucicostata: An Improved Ecotoxicological Method. *Environ.Toxicol.Chem.* 23: 1074-1079.

EcoReference No.: 72796
Chemical of Concern: NPM,EPTC,CPH,CPP,ASM,GFS,CMZ,FDE,NFZ,ACF,PAQT,CSF,FZFPB,DFPM,DMB,DBN,ATZ,PQT,ACR,BT,PDM,GYPI; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(GYPI,EPTC,ATZ,DMB,CMZ),OK(GFS,NFZ).

51. Moorhouse, K. G. and Casida, J. E. (1992). Pesticides as Activators of Mouse Liver Microsomal Glutathione S-Transferase. *Pestic.Biochem.Physiol.* 44: 83-90.

EcoReference No.: 79085
Chemical of Concern: EPTC,MITC,Captan,TMT,ATZ,ACR,ACL; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(EPTC,MITC,Captan),NO IN VITRO(ACL,ACR,ATZ,TMT).

*52.Murray, M. W., Arnold, R. N., Gregory, E. J., and Smeal, D. (1994). Early Broadleaf Weed Control in Potato (Solanum tuberosum) with Herbicides. *Weed Technol.* 8: 165-167.

EcoReference No.: 74062
Chemical of Concern: MTL,MBZ,EPTC,DMM,PDM; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE,TARGET(MTL),TARGET(EPTC).

*53.Nalewaja, J. D., Behrens, R., and Schmid, A. R. (1964). Uptake, Translocation, and Fate of Eptc-C14 in Alfalfa. *Weeds* 12: 269-272.

EcoReference No.: 27706
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*54.Oliver, L. R., Prendeviller, G. N., and Schreiber, M. M. (1968). Species Differences in Site of Root Uptake and Tolerance to EPTC. *Weed Sci.* 16: 534-537 .

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

*55.Prendeville, G. N., Oliver, L. R., and Schreiber, M. M. (1968). Species Differences in Site of Shoot Uptake and Tolerance to EPTC. *Weed Sci.* 16: 538-540 .

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

56. Prescott, L. M. and Olson, D. L. (1972). The Effect of Pesticides on the Soil Amoeba Acanthamoeba castellanii (Neff). *Proc.South D.Acad.Sci.* 51: 136-141 .

EcoReference No.: 60074
Chemical of Concern: DDT,24DXY,ATZ,EPTC,PPN; Habitat: A; Effect Codes: POP,REP; Rejection Code: LITE EVAL CODED(EPTC,ATZ),OK(DDT,24DXY,PPN) .

*57.Rabaey, T. L., Harvey, R. G., and Albright, J. W. (1996). Herbicide Timing and Combination Strategies for Woolly Cupgrass Control in Corn. *J.Prod.Agric.* 9: 381-384.

EcoReference No.: 73921
Chemical of Concern: MTL,PMD,EPTC,ACR,NSF,IZT,DMM,CZE; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE,TARGET(MTL),TARGET(EPTC).

*58. Rajoo, R. K. and Ghonsikar, C. P. (1978). Herbicidal Influence on the Uptake of Phosphorus by Paddy (Oryza sativa L.) and Maize (Zea mays L.). *Plant Soil* 50: 479-484.

EcoReference No.: 98466
Chemical of Concern: ATZ,24D,EPTC; Habitat: T; Effect Codes: PHY,ACC; Rejection Code: TARGET(ATZ,24D,EPTC).

*59.Rashid, A., O'Donovan, J. T., Khan, A. A., Sharma, M. P., and Van Nguyen, H. (1997). Response of Triallate-Resistant and -Susceptible Wild Oat (Avena fatua) Populations to Difenzoquat and EPTC in a Seedling Bioassay. *Weed Technol.* 11: 527-531.

EcoReference No.: 67091
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*60.Renner, K. A. and Powell, G. E. (1992). Response of Navy Bean (Phaseolus vulgaris) and Wheat (Triticum aestivum) Grown in Rotation to Clomazone, Imazethapyr, Bentazon, and Acifluorfen. *Weed Sci.* 40: 127-133.

EcoReference No.: 73989
Chemical of Concern: MTL,ACF,BT,CMZ,EPTC,IZT,PMD; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE,TARGET(MTL),TARGET(CMZ,EPTC).

*61. Roseberg, R. J. (1997). Herbicide Tolerance by Vernonia Grown in the Temperate Zone. *Ind.Crops Prod.* 6: 89-96.

EcoReference No.: 73987

Chemical of Concern:
MTL,TFN,PDM,EFL,FZF,SXD,PCH,ATZ,CPR,DCPA,NPP,24DXY,DMB,OXF,24DB,EPTC,OYZ,DU,MBZ,DMM,OXF,BMN; Habitat: T; Effect Codes: PHY; Rejection Code: LITE EVAL CODED(MTL),TARGET(SXD,DMB,ATZ,24DXY,OYZ,OXF,EPTC).

*62. Saayman, A. E. J. (1996). Control of Cyperus esculentus and Other Weeds in Maize with Servian. *Appl.Plant Sci.* 10: 48-51.

EcoReference No.: 73982
Chemical of Concern: MTL,ATZ,EPTC; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(ATZ,MTL,EPTC).

63. Santiago, L. P. and Recometa, R. D. (1981). Bio-Assay: Evaluation of Three Agricultural Herbicides on the Survival of Nile Tilapia (Tilapia nilotica) and Crucian Carp (Carassius carassius Anon) Fingerlings. *In: Tech.Rep.No.20, Freshwater Aquacult.Cent., Cent.Luzon State Univ.:* 19-29.

EcoReference No.: 4651
Chemical of Concern: TFN,EPTC; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(EPTC).

*64. Saroha, M. S. and Singh, H. G. (1971). Use of Simazine EPTC and PEBC for Weed Control in Hybrid Sorghum. *Madras Agric.J.* 58: 310-315.

EcoReference No.: 26760
Chemical of Concern: SZ,EPTC; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(SZ,EPTC).

*65. Sasaki, S., Kozlowski, T. T., and Torrie, J. H. (1968). Effect of Pretreatment of Pine Seeds with Herbicides on Seed Germination and Growth of Young Seedlings. *Can.J.Bot.* 46: 255-262.

EcoReference No.: 78675
Chemical of Concern: PPZ,EPTC,ATZ,SZ; Habitat: T; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(PPZ),TARGET(ATZ,SZ,EPTC).

*66. Schnelle, M. A. and Hensley, D. L. (1990). Effects of Pesticides upon Nitrogen Fixation and Nodulation by Dry Bean. *Pestic.Sci.* 28: 83-88.

EcoReference No.: 53973
Chemical of Concern:
CTN,Captan,BMY,FNV,SXD,DCF,MLN,BT,TFN,ACR,Maneb,EPTC,PNB,ES,DZ,CBL; Habitat: T; Effect Codes: BCM,GRO; Rejection Code: LITE EVAL CODED(DZ),NO CROP(CTN,Captan,MLN,Maneb,FNV),OK(ALL CHEMS,TARGET-CBL,EPTC).

*67. Schuh, J. F. and Harvey, R. G. (1991). Carbamothioate and Chloroacetamide Herbicides for Woolly Cupgrass (Eriochloa villosa) Control in Corn (Zea mays). *Weed Technol.* 5: 331-336.

EcoReference No.: 74054
Chemical of Concern: MTL,ACO,CZE,EPTC,ACR,BTY,CYC,PMD; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE(MTL,TARGET-MTL),TARGET(EPTC).

*68. Schulz, K. R., Fuhremann, T. W., and Lichtenstein, E. P. (1976). Interaction of Pesticide Chemicals. Effect of Eptam and Its Antidote on the Uptake and Metabolism of (14C)Phorate in Corn Plants . *J.Agric.Food Chem.* 24: 296-299.

EcoReference No.: 78984
Chemical of Concern: PRT,EPTC; Habitat: T; Effect Codes: ACC; Rejection Code: NO

CONTROL(PRT),TARGET(EPTC).

69. Smulders, C. J. G. M., Van Kleef, R. G. D. M., De Groot, A., Gotti, C., and Vijverberg, H. P. M. (2004). A Noncompetitive, Sequential Mechanism for Inhibition of Rat alpha4beta2 Neuronal Nicotinic Acetylcholine Receptors by Carbamate Pesticides. *Toxicol.Sci.* 82: 219-227.

EcoReference No.: 86935
Chemical of Concern: CBL,FYC,EPTC; Habitat: A; Effect Codes: PHY,CEL; Rejection Code: LITE EVAL CODED(CBL,EPTC,FYC).

This was an *in vitro* study using *xenopus* oocyte homogenate, looking at the effects of carbamates on neuronal type nicotinic acetylcholine receptors. This study was not useful for endpoint selection.

*70. Srinivasan, G. and Pothiraj, P. (1989). Effect of Herbicide Mixtures in Transplanted Rice. *Int.Rice Res.Newsl.* 14: 38-39.

EcoReference No.: 74377
Chemical of Concern: MLT,EPTC,24DC,PPN,BTC; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE(MLT),TARGET(EPTC).

*71. Srinivasan, G., Pothiraj, P., and Choudhry, G. K. (1993). Response of Azolla (Azolla pinnata) to Rice (Oryza sativa) Herbiciees. *Indian J.Agron.* 38: 156-158.

EcoReference No.: 74286
Chemical of Concern: MLT,EPTC,24DB,TBC,BTC; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(EPTC).

*72. Srinivasan, G. and Subbian, P. (1991). Study on Weed Management in Rice Pulse Cropping System. *J.Maharashtra Agric.Univ.* 16: 376-378.

EcoReference No.: 74326
Chemical of Concern: MLT,EPTC,TBC,BTC,PPN; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(EPTC).

*73. Stiles, C. L., Sams, C. E., Robinson, D. K., Coffey, D. L., and Mueller, T. C. (2000). Influence of Metam Sodium on the Dissipation and Residual Biological Activity of the Herbicides EPTC and Pebulate in Surface Soil Under Black Plastic Mulch. *J.Agric.Food Chem.* 48: 4681-4686.

Chemical of Concern: MTAS,EPTC; Habitat: T; Rejection Code: TARGET (MTAS,EPTC).

74. Sund, K. A. and Nomura, N. (1963). Laboratory Evaluation of Several Herbicides. *Weed Res.* 3: 35-43.

EcoReference No.: 42840
Chemical of Concern: PNB,SZ,ATZ,DU,24DXY,DBN,DMB,LNR,PMT,AMTL,CPP,MLH,PL,NaCLO,PCP,EPTC,2CP,4NP,AMTR,PCP,DLPCP,DL,NH; Habitat: T; Effect Codes: GRO,REP,MOR; Rejection Code: LITE EVAL CODED(EPTC,24DXY,ATZ,DMB,PCP),TARGET(SZ,DMB,PCB),NO SPECIES(PCB),NO ENDPOINT(LNR).

*75. Talbert, R. E., Johnson, D. H., Wichert, R. A., and Kendig, J. A. (1987). Field Evaluations of Herbicides on Small Fruit and Vegetable Crops, 1987. *Ark.Agric.Exp.Stn.Res.Ser.* 1-25.

EcoReference No.: 73744

Chemical of Concern:
HXZ,GYP,OXF,ACF,OYZ,SZ,CYC,PHMD,DEE,MBZ,DMM,ACR,BS,NPM,NPP,EFL,FZP,IMQ,CMZ,IZT,FZFPB,MTL,SXD,FSF,EPTC,TFN,BT,PAQT,TRB; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE(SXD,PHMD),OK(ALL CHEMS),TARGET(CMZ,OYZ,FSF,HXZ,MYL,SZ,BS,GYP,OXF,EPTC).

*76. Talbert, R. E., Tierney, M. J., Burgos, N. R., Strebe, T. A., Curless, J. K., and Miesner, J. (1996). Field Evaluations of Herbicides on Small Fruit Vegetable and Ornamental Crops 1995. *Ark.Agric.Exp.Stn.Res.Ser.* 452: 1-38.

EcoReference No.: 73745
Chemical of Concern:
MTL,MBZ,DMM,BT,24DXY,EPTC,GYP,OYZ,DU,TPZ,OXF,ACF,TFN,CYC,CMZ,FTS,FZF,IZT,FSF,CPR,DCPA,HSF,PRM,SXD,CPP,NPP,DDP,ACO,GFSNH,PAQT,PHMD; Habitat: T; Effect Codes: PHY,POP; Rejection Code: LITE EVAL CODED(SXD,PHMD),TARGET(MTL,24DXY,CMZ,OYZ,FSF,GYP,OXF,EPTC).

*77.Talbert, R. E., Tierney, M. J., Burgos, N. R., Strebe, T. A., and Kitt, M. J. (1995). Field Evaluation of Herbicides on Small Fruit, Vegetable and Ornamental Crops, 1994. *Ark.Agric.Exp.Stn.Res.Ser.* 447: 1-54.

EcoReference No.: 73916
Chemical of Concern:
MTL,BT,CPP,CLT,CMZ,CPR,CYC,DCPA,DDP,PHMD,DEE,DMM,DU,EPTC,EFL,FZP,FTS,FSF,GFS,GYP,IZT,MLX,Cu,MBZ,NPP,OYZ,PAQT,PMD,PHMD,QNC,SXD,SFZ,TPZ,TPR,TFN,24DXY; Habitat: T; Effect Codes: POP,PHY; Rejection Code: LITE EVAL CODED(MTL,PHMD),NO MIXTURE(SXD),OK(ALL CHEMS),TARGET(24DXY,CMZ,OYZ,FSF,GYP,EPTC).

78. Tu, C. M. (1993). Influence of Ten Herbicides on Activities of Microorganisms and Enzymes in Soil. *Bull.Environ.Contam.Toxicol.* 51: 30-39.

EcoReference No.: 86410
Chemical of Concern: BT,DFP,DU,EPTC,PPZ; Habitat: T; Effect Codes: POP,PHY,SYS; Rejection Code: LITE EVAL CODED(EPTC),OK(DU,PPZ),NO COC(PRO).

*79. Turner, P. E. T. (1983). Eptam Super and Sutan Plus for Control of Cyperus Rotundus L. in Plant Crops of Sugarcane. *Proc S Afr Sugar Cane Tech Ass* 57: 131-133.

EcoReference No.: 32188
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*80. Weinberg, M. B. and Castelfranco, P. A. (1975). Effect of Eptc (S-Ethyl Dipropylthio-Carbamate) on Plastid Membrane Constituents in Germinating Cucumber Cotyledons. *Weed Sci.* 23: 185-187.

EcoReference No.: 26107
Chemical of Concern: EPTC; Habitat: T; Rejection Code: TARGET(EPTC).

*81. Westra, P., Wilson, R. G., and Zimdahl, R. L. (1990). Wild-Proso Millet (Panicum miliaceum) Control in Central Great Plains Irrigated Corn (Zea mays). *Weed Technol.* 4: 409-414.

EcoReference No.: 74002
Chemical of Concern: MTL,PDM,ACR,CYC,EPTC,CZE,ACO,SXD; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(SXD,MTL,EPTC).

*82.Wyse, D. L. (1947). Interaction of Herbicides, Disease, and Cultural Practices on Growth and Development of Navy Bean (Phaseolus vulgaris L.). *Ph.D.Thesis, Michigan State Univ., E.Lansing, MI* 167 p.

EcoReference No.: 93289
Chemical of Concern: EPTC,ATZ, Habitat: T; Effect Codes: GRO,POP,ACC,BCM; Rejection Code: TARGET(ATZ,EPTC).

83. Wyss, G. S., Charudattan, R., Rosskopf, E. N., and Littell, R. C. (2004). Effects of Selected Pesticides and Adjuvants on Germination and Vegetative Growth of Phomopsis amaranthicola, a Biocontrol Agent for Amaranthus spp. *Weed Res.* 44: 469-482.

EcoReference No.: 96666
Chemical of Concern: DCF,EPTC,OXF,PAQT,CLT,TFN,NPM,PDM,AMTR,PRM,NPP,MBZ,IZT,IPD,VCZ,BMY,DMT,MLN,CYR,LNR,DU,BS,GYPI,MTL,SXD,DCPA,IZP,SZ,ATZ,Maneb,MZB,CuOH,CTN,FSTL; Habitat: T; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(LNR,GYPI,OXF,EPTC),OK(ATZ,SZ,IZP,DCPA,SXD,MTL,BS,DU,CYR,MLN,DMT),TARGET(FSTL,CTN,CuOH,MZB,Maneb).

*84. Yamaguchi, S. (1961). Absorption and Distribution of 35S-EPTC. *Weeds* 9: 374-380.

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

85. Zimmerman, L. J., Valentine, H. L., and Valentine, W. M. (2004). Characterization of S-(N,N-Dialkylaminocarbonyl)Cysteine Adducts and Enzyme Inhibition Produced by Thiocarbamate Herbicides in the Rat. *Chem.Res.Toxicol.* 17: 258-267.

EcoReference No.: 74324
Chemical of Concern: BTY,MLT,VNT,EPTC; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(EPTC),OK(MLT).

Acceptable for ECOTOX but not OPP

1. Arnold, R. N., Gregory, E. J., and Smeal, D. (1988). Effects of Herbicides on Weeds in Field Corn Grown on Coarse-Textured Soils. *Appl.Agric.Res.* 3: 21-23.

EcoReference No.: 73778
Chemical of Concern: MTL,ACR,EPTC,CZE,24DXY,DMB,VRN; Habitat: T; Effect Codes: POP,PHY; Rejection Code: NO ENDPOINT(ALL CHEMS,TARGET-MTL,EPTC).

2. Ashton, F. M., Devilliers, O. T., Glenn, R. K., and Duke, W. B. (1977). Localization of Metabolic Sites of Action on Herbicides. *Pestic.Biochem.Physiol.* 7: 122-141.

EcoReference No.: 42644
Chemical of Concern: 24DXY,ATZ,BMC,DBN,TFN,PAQT,EPTC; Habitat: T; Effect Codes: PHY,CEL,BCM; Rejection Code: NO ENDPOINT,NO CONTROL(ALL CHEMS).

3. Bandeen, J. D., Jones, G. E., and Switzer, C. M. (1960). An Investigation of the Effects of Various Methods of Herbicide Application on Weed Control in Sugar Beets. *J.Am.Sug.T.* 11: 151-154.

EcoReference No.: 42637
Chemical of Concern: EPTC; Habitat: T; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC).

4. Bennett, M. A. and Gorski, S. F. (1989). Response of Sweet Corn (Zea mays) Endosperm Mutants to Chloracetamide and Thiocarbamate Herbicides. *Weed Technol.* 3: 475-478.

EcoReference No.: 73789
Chemical of Concern: MTL,ACR,EPTC,BTY; Habitat: T; Effect Codes: GRO; Rejection Code: NO

CONTROL,ENDPOINT(ALL CHEMS).

5. Buchanan, G. A. and Howeland, L. S. (1971). Tolerance of Yuchi Arrowleaf Clover to Herbicides. *Weed Sci.* 19: 254-256.

   EcoReference No.: 41860
   Chemical of Concern: EPTC; Habitat: T; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC).

6. 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,EPTC; Habitat: A; Effect Codes: NOC,GRO,MOR,BEH,PHY; Rejection Code: NO CONTROL(ALL CHEMS).

7. 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,EPTC; Habitat: A; Effect Codes: BEH,POP,MOR,GRO,ACC,SYS; Rejection Code: NO CONTROL(PSM,DS,MP,Naled),LITE EVAL CODED(MLN,PRT),NO ENDPOINT(DMT),NO ENDPOINT,NO CONTROL(EPTC,24DXY,TBF).

8. Chernova, N. M., Balabina, I. P., and Ponomareva, O. N. (1995). Changes in Population Growth of Springtail (Collembola) Under the Influence of Herbicides. *Pol.Pismo Entomol.* 64: 91-98.

   EcoReference No.: 98929
   Chemical of Concern: TRL,EPTC,DMDP; Habitat: T; Effect Codes: POP,REP,MOR; Rejection Code: NO CONC(EPTC,DMDP).

9. Cole, A. W. and Coats, G. E. (1973). Tall Morningglory Germination Response to Herbicides and Temperature. *Weed Sci.* 21: 443-446.

   EcoReference No.: 41496
   Chemical of Concern: ATZ,BMC,DU,SZ,MBZ,TRB,TFN,EPTC,NPM,DCPA,PZM; Habitat: T; Effect Codes: REP,GRO; Rejection Code: TARGET(ATZ,SZ),NO ENDPOINT,NO CONTROL(EPTC,PZM,BMC).

10. Couderchet, M., Schmalfuss, J., and Boger, P. (1998). A Specific and Sensitive Assay to Quantify the Herbicidal Activity of Chloroacetamides. *Pestic.Sci.* 52: 381-387.

    EcoReference No.: 74055
    Chemical of Concern: MTL,BTC,ACR,MBZ,DMM,24DXY,CPP,CSF,OXF,EPTC,ATC; Habitat: A; Effect Codes: GRO,BCM; Rejection Code: NO ENDPOINT(ALL CHEMS).

11. Day, B. E., McCarty, C. D., and Jordan, L. S. (1962). Dalapon, Amitrole, and Weed Oil Compared for Effectiveness in Control of Bermudagrass in California Citrus Orchards. *Hilgardia* 32: 207-227.

    EcoReference No.: 42076
    Chemical of Concern: SZ,AMTL,EPTC,PRO; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT(SZ,AMTL,PRO),NO ENDPOINT,NO CONTROL(EPTC).

12. Dest, W. M., Peters, R. A., and Barrett, M. (1976). The Control of Crabgrass and Redroot Pigweed in Silage Corn. *Proc.Northeast.Weed Sci.Soc.* 30: 55-58.

EcoReference No.: 40803
Chemical of Concern: ATZ,ACR,PDM,24DXY,EPTC,BTY,CZE; Habitat: T; Effect Codes: POP; Rejection Code: OK(CZE,PDM),OK TARGET(ATZ),NO MIXTURE(BTY,EPTC,24DXY,ACR).

13. El Antably, H. M. M. and Risk, T. Y. (1977). The Effect of EPTC on the Bud Dormancy of Purple Nutsedge. *Z Pflanzenp* 84: 189-194.

EcoReference No.: 43911
Chemical of Concern: EPTC; Habitat: T; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC).

14. Ezra, G., Dekker, J. H., and Stephenson, G. R. (1985). Tridiphane as a Synergist for Herbicides in Corn (Zea mays) and Proso Millet (Panicum miliaceum). *Weed Sci.* 33: 287-290.

EcoReference No.: 44216
Chemical of Concern: ATZ,ACR,EPTC; Habitat: T; Effect Codes: GRO; Rejection Code: NO ENDPOINT(TARGET-ATZ),NO ENDPOINT,NO CONTROL(EPTC).

15. Fawcett, R. S. and Slife, F. W. (1975). Germination Stimulation Properties of Carbamate Herbicides. *Weed Sci.* 23: 419-424.

EcoReference No.: 41713
Chemical of Concern: EPTC; Habitat: T; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC).

16. Fox, P. M. and Thurston, R. (1966). The Effects of 1-Naphthyl-N-Methylcarbamate on Germinating Tobacco Seeds. *Bot.Gaz.* 127: 70-74.

EcoReference No.: 42386
Chemical of Concern: CBL,EPTC; Habitat: T; Effect Codes: REP,GRO; Rejection Code: TARGET(CBL),NO ENDPOINT(EPTC).

17. Frear, D. E. H. and Boyd, J. E. (1967). Use of Daphnia magna for the Microbioassay of Pesticides. I. Development of Standardized Techniques for Rearing Daphnia and Preparation of Dosage-Mortality Curves for Pesticides. *J.Econ.Entomol.* 60: 1228-1236.

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

18. Gentner, W. A. (1966). The Inflence of EPTC on External Foliage Wax Deposition. *Weeds* 14: 27-31.

EcoReference No.: 42342
Chemical of Concern: EPTC; Habitat: T; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC).

19. Gillette, L. A., Miller, D. L., and Redman, H. E. (1952). Appraisal of a Chemical Waste Problem by Fish Toxicity Tests. *Sewage Ind.Wastes* 24: 1397-1401.

EcoReference No.: 927
Chemical of Concern: EDT,NH,EPTC; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(EPTC).

20. Hakeem, H. and Shehab, A. (1973). Cytological Effects of Eptam and Cotoran Herbicides on Vicia Faba Broadbeans. *Egypt.J.Bot.* 16: 303-311.

EcoReference No.: 41697
Chemical of Concern: EPTC; Habitat: T; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC).

21. Hammerton, J. L. (1963). Control of Weeds in Marrowstem Kale by EPTC and Some Other Herbicides. *Weed Res.* 3: 128-139.

EcoReference No.: 42022
Chemical of Concern: EPTC; Habitat: T; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC).

22. Hawton, D., Johnson, I. D. G., Loch, D. S., Harvey, G. L., Marley, J. M. T., Hazard, W. H. L., Bibo, J., and Walker, S. R. (1990). A Guide to the Susceptibility of Some Tropical Crop and Pasture Weeds and the Tolerance of Some Crop Legumes to Several Herbicides. *Trop.Pest Manag.* 36: 147-150.

EcoReference No.: 73776
Chemical of Concern:
ACR,ATZ,BT,DMB,DU,MTL,MBZ,DMM,PDM,ACF,BFL,24DXY,EPTC,FZFB,PCL,SXD,TFN,VNT; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT(ALL CHEMS,TARGET-ATZ,MTL,EPTC).

23. Hess, F. D. (1980). A Chlamydomonas Algal Bioassay for Detecting Growth Inhibitor Herbicides. *Weed Sci.* 28: 515-520.

EcoReference No.: 6513
Chemical of Concern:
ACR,ATZ,BMN,BS,DBN,GYP,MLT,TFN,BTY,CPP,AMTL,EPTC,PAQT,FDE; Habitat: A; Effect Codes: POP; Rejection Code: NO CONROL(BS),LITE EVAL CODED(ATZ,MLT),NO ENDPOINT,NO CONTROL(EPTC,GYP).

24. Heydens, W. F., Wilson, A. G. E., Kraus, L. J., Hopkins II, W. E., and Hotz, K. J. (2000). Ethane Sulfonate Metabolite of Alachlor: Assessment of Oncogenic Potential Based on Metabolic and Mechanistic Considerations. *Toxicol.Sci.* 55: 36-43.

EcoReference No.: 78665
Chemical of Concern: ACR,ESA; Habitat: T; Effect Codes: GRO,CEL,ACC; Rejection Code: NO COC(ESA).

25. Hulzebos, E. M., Dirven-Van Breemen, E. M., Van Dis, W. A., Van Gestel, C. A. N., and et al. (1989). Toxiciteit van het RIVM-Aandeel in Het Proj. Fytotoxiciteit 2. *RIVM Rapport Nr.718710002, RIVM, Netherlands (OECDG Data Files)*.

EcoReference No.: 56351
Chemical of Concern: AZ,HCCH,PCP,AMSV,ACE,EPTC; Habitat: T; Effect Codes: GRO,REP; Rejection Code: NO CONTROL(EPTC,ACE),NO FOREIGN.

26. Humphreys, T. E. and Dugger, W. M. Jr. (1959). Effect of 2,4-Dichlorophenoxyacetic Acid and 2,4-Dinitrophenol on the Uptake and Metabolism of Exogenous Substrates by Corn Roots. *Plant Physiol.* 34: 112-116.

EcoReference No.: 28477
Chemical of Concern: 24D,DNP; Habitat: T; Effect Codes: ACC,BCM; Rejection Code: NO ENDPOINT(24D),NO COC(DNP).

27. Jirachek, V., Tomankova, H., Vedralova, E., and Kocourek, J. (1964). The Influence of 1- and 6-Thioglucose on

the Growth and the Sugar and Free Amino Acid Content of Pea Seedlings. *Naturwissen* 51: 199.

EcoReference No.: 42223
Chemical of Concern: NPP,PMT,EPTC; Habitat: T; Effect Codes: GRO,REP; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC).

28. Johnson, B. J. (1972). Effects of Herbicides Applied Preplant or Preemergence on Weeds and Sunflowers. *Crop Sci.* 12: 650-653.

EcoReference No.: 41645
Chemical of Concern: TFN,EPTC; Habitat: T; Effect Codes: MOR; Rejection Code: NO ENDPONT,NO CONTROL(EPTC).

29. Johnson, B. J. (1974). Grass Control with EPTC in Sand Traps on Golf Courses. *Weed Sci.* 22: 434-436.

EcoReference No.: 41026
Chemical of Concern: EPTC; Habitat: T; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC).

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

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

31. Karunen, P. and Eronen, L. (1977). Influence of S-Ethyl Dipropylthiocarbamate (EPTC) on the Fatty Acid Composition of Wheat Leaf Galactolipids. *Physiol.Plant.* 40: 101-104.

EcoReference No.: 43001
Chemical of Concern: EPTC; Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT(EPTC).

32. Komives, A. V., Komives, T., and Dutka, F. (1985). Effect of Thiocarbamate Herbicides on the Activity of Glutathione S-Transferase in Maize. *Cereal Res.Commun.* 13: 253-257.

EcoReference No.: 74428
Chemical of Concern: MLT,CYC,EPTC,VNT,BTY,PEB; Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT,TARGET(EPTC).

33. Kozlowski, T. T. and Clausen, J. J. (1965). Influence of Various Herbicides on Needle Structure of Young Red Pines . *For.Res.Notes* 126: 3 p.

EcoReference No.: 78599
Chemical of Concern: EPTC,SZ,ATZ,PMT,PPZ; Habitat: T; Effect Codes: PHY; Rejection Code: NO ENDPOINT,CONTROL (ALL CHEMS,TARGET-ATZ,SZ,EPTC).

34. Kozlowski, T. T. and Torrie, J. H. (1965). Effect of Soil Incorporation of Herbicides on Seed Germination and Growth of Pine Seedlings. *Soil Sci.* 100: 139-146.

EcoReference No.: 41006
Chemical of Concern: SZ,EPTC,DCPA,PPZ,ATZ,PMT; Habitat: T; Effect Codes: REP,POP,GRO; Rejection Code: LITE EVAL CODED(PPZ),TARGET(ATZ,SZ),NO ENDPOINT,NO CONTROL(EPTC).

35. Kratky, B. A. and Warren, G. F. (1971). The Use of Three Simple, Rapid Bioassays on Forty-Two Herbicides. *Weed Res.* 11: 257-262.

EcoReference No.: 40616
Chemical of Concern: EDT,SZ,24DC,ATZ,24DXY,ACR,BMC,BMN,BS,DBN,DMB,LNR,PQT,TRB,TFN,PYZ,NaN3,PRO, EPTC; Habitat: AT; Effect Codes: POP,GRO; Rejection Code: LITE EVAL CODED(LNR,BMC,PRO,ATZ,SZ,PYZ,NaN3-aquatic),NO ENDPOINT(BMC,BS,SZ-terrestrial,DMB),NO ENDPOINT,NO CONTROL(EPTC,24DXY).

36. Krishnamurthy, K. (1970). Effect of Herbicides on Weeds and Yield of Sorghum. *Indian J.Agric.Sci.* 40: 474-480.

EcoReference No.: 41831
Chemical of Concern: SZ,ATZ,DU,24DXY,PPN,EPTC; Habitat: T; Effect Codes: REP; Rejection Code: NO ENDPOINT(SZ,ATZ,24DXY,PPN),NO ENDPOINT,NO CONTROL(EPTC).

37. Laval-Martin, D., Grizeau, D., and Calvayrac, R. (1983). Characterization of Diuron-Resistant Euglena: Greater Tolerance for Various Phenylurea Herbicides and Increased Sensitivity of Thylakoids to Ethyl-s-Dipropyl Thiocarbamate. *Plant Sci.Lett.* 29: 155-167.

EcoReference No.: 89462
Chemical of Concern: DU,SID,ATZ,EPTC; Habitat: A; Effect Codes: PHY,BCM; Rejection Code: NO CONTROL,NO ENDPOINT(ALL CHEMS,TARGET-SID).

38. Mann, J. D. and Pu, M. (1968). Inhibition of Lipid Synthesis by Certain Herbicides. *Weed Sci.* 1: 197-198.

EcoReference No.: 43988
Chemical of Concern: EDT,SZ,24DXY,ATZ,DBN,TFN,PCP,PCL,EPTC; Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC,EDT,SZ,24DXY,ATZ,DBN,TFN,PCP,PCL).

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

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

,BS,OXD,Captan,MLN,HXZ,TBF).

40. McCorkle, F. M., Chambers, J. E., and Yarbrough, J. D. (1977). Acute Toxicities of Selected Herbicides to Fingerling Channel Catfish, Ictalurus punctatus. *Bull.Environ.Contam.Toxicol.* 18: 267-270.

    EcoReference No.: 858
    Chemical of Concern: 24DXY,BS,DU,MBZ,DMM,TFN,EPTC; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(BS),NO ENDPOINT,NO CONTROL(EPTC,24DXY).

41. Meliyan, R. I. (1991). Effect of Pesticides on Reproductive Function of the Freshwater Amphipod Gammarus kischineffensis. *Hydrobiol.J.* 27: 33-36.

    EcoReference No.: 7457
    Chemical of Concern: HCCH,PCZ,EPTC; Habitat: A; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(PCZ),OK(HCCH),NO ENDPOINT(EPTC).

42. Moreland, D. E., Malhotra, S. S., Gruenhagen, R. D., and Shokraii, E. H. (1969). Effects of Herbicides on RNA and Protein Synthesis. *Weed Sci.* 17: 556-563.

    EcoReference No.: 42656
    Chemical of Concern: AMTL,PCL,EPTC,PCH,CPP,PPN,TFN,DMB,DBN,DU,ATZ; Habitat: T; Effect Codes: BCM; Rejection Code: TARGET(ATZ,DMB),NO ENDPOINT,NO CONTROL(EPTC).

43. Morpurgo, G., Aulicino, F., Bignami, M., Conti, L., and Velcich, A. (1977). Relationship Between Structure and Mutagenicity of Dichlorvos and Other Pesticides. *Acad.Naz.dei Lincei* 62: 692-701.

    EcoReference No.: 98465
    Chemical of Concern: MP,AZ,EPTC,DDVP,TRL,MVP; Habitat: T; Effect Codes: CEL; Rejection Code: NO ENDPOINT(MP,AZ,EPTC).

44. Nagy, J., Kecskes, M., and Nagy, I. (1991). Microbial Herbicide Safener. *In: 7th Int.Congr.of Pestic.Chem., Aug.5-10, 1990, Hamburg, Germany, Pestic.Sci.* 31: 116-119.

    EcoReference No.: 74953
    Chemical of Concern: MLT,EPTC,BTY,VNT,CYC,ACO,TSF,CSF,CMZ, Habitat: T; Effect Codes: GRO,PHY; Rejection Code: NO ENDPOINT (ALL CHEMS).

45. Ndahi, W. B., Russ, O. G., and Moshier, L. J. (1981). Pearl Millet Tolerance to Selected Herbicides. *Trans.Kans.Acad.Sci.* 84: 105-108.

    EcoReference No.: 78602
    Chemical of Concern: ATZ,PPZ,CZE,PCH,EPTC,LNR,BTY; Habitat: T; Effect Codes: PHY,GRO,POP; Rejection Code: LITE EVAL CODED(PPZ),NO MIXTURE(EPTC,BTY,TARGET-ATZ,LNR)OK(CZE,PCH).

46. Nishiuchi, Y. (1972). Toxicity of Pesticides to Some Water Organisms. *Bull.Agric.Chem.Insp.Stn.(Noyaku Kensasho Hokoku)* 12: 122-128 (JPN) (ENG TRANSL).

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

NO CONTROL(ALL CHEMS).

47. Nishiuchi, Y. and Asano, K. (1979). Toxicity of Agricultural Chemicals to Some Freshwater Organisms - LIX. *The Aquiculture (Suisan Zoshoku)* 27: 48-55 (JPN) (ENG TRANSL).

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

48. Ogg, A. G. Jr. and Drake, S. R. (1982). Response of Sweetcorn (Zea mays) to Alachlor, EPTC + R - 25788, and Vernolate + R - 25788. *Weed Sci.* 30: 446-449 .

EcoReference No.: 41312
Chemical of Concern: ACR,VNT,EPTC; Habitat: T; Effect Codes: POP,PHY,BCM; Rejection
Code: OK(ACR),NO MIXTURE(VNT,EPTC).

49. Palmer, J. S. (1972). Toxicity of 45 Organic Herbicides to Cattle, Sheep and Chickens. *Prod.Res.Rep.No.137, Agricultural Research Serv., U.S.Dep.of Agriculture, Washington, D.C.*

EcoReference No.: 80557
Chemical of Concern:
24DXYEE,MCPB,MCPA,PEB,VNT,EPTC,MSMA,CCA,TFN,PAQT,DQTBr,NPM,PYZ,DCPA,AM
TL,DMDP,24D; Habitat: T; Effect Codes: GRO,MOR,BEH; Rejection Code: NO
ENDPOINT(DMDP,24D,24DXYEE,EPTC).

50. Parker, C. and Dean, M. L. (1976). Control of Wild Rice in Rice. *Pestic.Sci.* 7: 403-416.

EcoReference No.: 98533
Chemical of Concern:
EPTC,LNR,MTZ,MBZ,OYZ,PPN,ACR,BTC,MTL,EFS,MLT,ODZ,PSM,PPN,DFQ; Habitat: T;
Effect Codes: GRO; Rejection Code: NO ENDPOINT(EPTC,ACR,MTL,MLT,PZM,OYZ,LNR),NO
COC(OXF).

51. Parker, C. and Dean, M. L. (1972). The Effect of Some Plant Growth Regulators on the Sprouting of Cyperus rotundus and Its Response to Herbicides. *Proc.Br.Weed Control Conf.* 11: 744-751.

EcoReference No.: 40595
Chemical of Concern: 24DXY,CFRM,PAQT,TRB,EPTC,As; Habitat: T; Effect Codes:
PHY,GRO,POP; Rejection Code: NO ENDPOINT(ALL CHEMS).

52. Peeples, J. L., Curl, E. A., and Rodriguez-Kabana, R. (1976). Effect of the Herbicide EPTC on the Biocontrol Activity of Trichoderma viride Against Sclerotium rolfsii. *Plant Dis.Rep.* 60: 1050-1054.

EcoReference No.: 98285
Chemical of Concern: EPTC; Habitat: T; Effect Codes: MOR,BCM; Rejection Code: NO
ENDPOINT(EPTC).

53. Perevozchenko, I. I. (1975). Effect of Carbamic and Thiocarbamic Acid Derivatives on Fishes and Amphibians. *Hydrobiol.J.* 11: 74-76.

EcoReference No.: 5822
Chemical of Concern: MLT,EPTC; Habitat: A; Effect Codes: MOR,BCM; Rejection Code: LITE
EVAL CODED(MLT),NO ENDPOINT,NO CONTROL(EPTC).

54. Phatak, S. C. and Cantliffe, D. J. (1975). Effect of Herbicides on Weed Control and Nitrate Accumulation in Table Beets. *Hortscience* 10: 271-273 .

EcoReference No.: 41580
Chemical of Concern: PEB,PYZ,EPTC; Habitat: T; Effect Codes: GRO,POP,BCM; Rejection Code: TARGET(PYZ),NO ENDPOINT,NO CONTROL(EPTC).

55. Putnam, A. R. and Davidson, H. (1970). Chemical Control of Weeds in Transplanted Ground Covers. *J.Am.Soc.Hortic.Sci.* 95: 687-689.

EcoReference No.: 43457
Chemical of Concern: SZ,BS,DBN,TFN,EPTC; Habitat: T; Effect Codes: PHY,POP; Rejection Code: TARGET(SZ),NO ENDPOINT,NO CONTROL(EPTC,BS).

56. Quistad, G. B., Sparks, S. E., and Casida, J. E. (1994). Aldehyde Dehydrogenase of Mice Inhibited by Thiocarbamate Herbicides. *Life Sci.* 55: 1537-1544.

EcoReference No.: 74291
Chemical of Concern: EPTC,TBC,PEB,VNT,MLT,BTY,TRL,CYC; Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT(EPTC).

57. Raker, R. J. (1978). Evaluation of Herbicides for Control of Yellow Nutsedge on Nursery Fields. *Ohio ARDC.C.* 236: 51-52.

EcoReference No.: 41842
Chemical of Concern: GYP,NPP,ACR,BT,EPTC; Habitat: T; Effect Codes: MOR,PHY; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC,GYP).

58. Rincon, D. J. and Warren, G. F. (1978). Effect of Five Thiocarbamate Herbicides on Purple Nutsedge (Cyperus rotundus). *Weed Sci.* 26: 127-131.

EcoReference No.: 41477
Chemical of Concern: MLT,PEB,BTY,VNT,EPTC; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MLT),NO ENDPOINT,NO CONTROL(EPTC).

59. Rudyanski, W. J., Fawcett, R. S., and McAllister, R. S. (1987). Effect of Prior Pesticide Use on Thiocarbamate Herbicide Persistence and Giant Foxtail (Setaria faberi) Control. *Weed Sci.* 35: 68-74.

EcoReference No.: 74942
Chemical of Concern: CBF,EPTC,BTY; Habitat: T; Effect Codes: POP; Rejection Code: OK(BTY),NO MIXTURE(CBF,TARGET-EPTC).

60. Ruppel, E. G., Gilbertson, R. L., and Schweizer, E. E. (1988). Population Densities of Selected Soil-Borne Fungi and Disease Incidence in a Crop Rotation Under Varied Weed-Management Systems. *Agric.Ecosyst.Environ.* 21: 163-169.

EcoReference No.: 98842
Chemical of Concern: DMB,PHMD,24DXY,CZE,TFN,ACR,EPTC; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT(EPTC).

61. Sanders, H. O. (1970). Toxicities of Some Herbicides to Six Species of Freshwater Crustaceans. *J.Water Pollut.Control Fed.* 24: 1544-1550 (Publ in Part As 6797).

EcoReference No.: 886
Chemical of Concern: SZ,EDT,24DXY,BS,DBN,DMB,DU,MLT,PEB,TFN,EPTC; Habitat: A; Effect Codes: MOR,PHY; Rejection Code: LITE EVAL CODED(MLT,SZ,DMB),NO

CONTROL(EPTC,24DXY,BS).

62. Sasaki, S. and Kozlowski, T. T. (1968). Effects of Herbicides on Seed Germination and Early Seedling Development of Pinus resinosa. *Bot.Gaz.* 129: 238-246.

EcoReference No.: 43872
Chemical of Concern: ATZ,24DXY,EPTC; Habitat: T; Effect Codes: REP,MOR; Rejection Code: TARGET(ATZ),NO ENDPOINT,NO CONTROL(EPTC,24DXY).

63. Scudder, W. T. (1963). Evaluation of Herbicides for Soybeans on Central Florida Organic Soils. *Fla.Agric.Exp.Stn.Bull.* 650: 3-36.

EcoReference No.: 42227
Chemical of Concern: ATZ,DU,SZ,AMTL,NaPCP,EPTC,24DXY,PPZ; Habitat: T; Effect Codes: PHY,POP; Rejection Code: NO ENDPOINT(AMTL,ATZ,DU,PPZ,TARGET-SZ),NO ENDPOINT,NO CONTROL(EPTC,24DXY).

64. Selleck, G. W. and Weber, L. E. (1976). Herbicide Trials for Yellow Nutsedge in Potatoes on Long Island. *Proc.Northeast.Weed Sci.Soc.* 30: 239-242.

EcoReference No.: 40628
Chemical of Concern: DMM,ACR,MBZ,MTL,EPTC,NPP; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL),NO ENDPOINT(EPTC).

65. Siltanen, H. and Rosenberg, C. (1977). Residue Analyses of the Official Testing of Pesticides, 1976. *In: Publs.of the State Inst.of Agric.Chem., Helsinki, Finland, State Inst.of Agric.Chem.* 12: 68 p.

EcoReference No.: 94464
Chemical of Concern:
SZ,PCH,PMT,PHMD,MBZ,MTZ,MCPA,LNR,GYP,EPTC,EFS,DFQ,DPP1,CZE,CPP,BMN,TYF,TFR,CBF,IFP,Naled,BMY,CBD,CU,EPH,DCNA,DINO,TZL,ILL,MZB,Maneb,MTM,TBA,TPM,CQTC; Habitat: T; Effect Codes: ACC; Rejection Code: NO ENDPOINT,NO CONTROL(ALL CHEMS).

66. Smith, D. and Buchholtz, K. P. (1964). Modification of Plant Transpiration Rate with Chemicals. *Plant Physiol.* 39: 572-578.

EcoReference No.: 42221
Chemical of Concern: ATZ,SZ,24DXY,LNR,TFN,PPZ,AMTR,AMTL,DU,EPTC; Habitat: T; Effect Codes: PHY; Rejection Code: NO ENDPOINT(ATZ,SZ,TFN,PPZ,AMTR,AMTL,DU),NO ENDPOINT,NO CONTROL(EPTC,LNR,24DXY).

67. Staub, R. E., Quistad, G. B., and Casida, J. E. (1998). Mechanism for Benomyl Action as a Mitochondrial Aldehyde Dehydrogenase Inhibitor in Mice. *Chem.Res.Toxicol.* 11: 535-543.

EcoReference No.: 97967
Chemical of Concern: EPTC,TPE,BMY,CBD; Habitat: T; Effect Codes: BCM; Rejection Code: OK(BMY),NO CONTROL(EPTC,TPE,CBD).

68. Sumida, S. and Ueda, M. (1973). Studies of Pesticide Effects on Chlorella Metabolism. I. Effect of Herbicides on Complex Lipid Biosynthesis. *Plant Cell Physiol.* 14: 781-785.

EcoReference No.: 70737
Chemical of Concern: SZ,24DXY,BMC,EPTC; Habitat: A; Effect Codes: POP; Rejection Code: NO ENDPOINT(EPTC,BMC,SZ,24DXY).

69. Talbert, R. E., Frans, R. E., and Baker, H. R. (1965). Field Screening of New Chemicals for Herbicidal

Acitivity, 1965. *Rep.No.147, Arkansas Univ.(Fayetteville), Agric.Exp.Stn., Mimeo.Ser.* 12 p.

EcoReference No.: 94352
Chemical of Concern: DU,ATZ,TFR,EPTC,DSMA; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT(TFR,TARGET-ATZ,EPTC).NO COC(QOC,BS).

70. Thomas, V. M. Jr., Buckley, L. J., Sullivan, J. D. Jr., and Ikawa, M. (1973). Effect of Herbicides on the Growth of Chlorella and Bacillus Using the Paper Disc Method. *Weed Sci.* 21: 449-474.

EcoReference No.: 67240
Chemical of Concern: ATZ,SZ,24DXY,LNR,EPTC; Habitat: A; Effect Codes: POP; Rejection Code: NO ENDPOINT(ATZ,SZ),NO ENDPOINT,NO CONTROL(EPTC,LNR,24DXY).

71. Vasconcelos, M. T. S. D and Leal, M. F. C. (2002). Influence of N-2-Hydroxyethylpiperazine-N'-2-Ethanesulfonic Acid pH Buffer on the Biological Response of Marine Algae. *Environ.Toxicol.Chem.* 21: 404-412.

EcoReference No.: 75650
Chemical of Concern: Cu,Pb,Cd,Hg,ESA; Habitat: A; Effect Codes: PHY,BCM; Rejection Code: NO COC(ESA).

72. Vengris, J. (1977). Annual Weed Control in Alfalfa New Seedlings. *Proc.Northeast.Weed Sci.Soc.* 31: 99-103.

EcoReference No.: 40621
Chemical of Concern: MTL,EPTC,MTZ; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL),NO ENDPOINT(EPTC).

73. Welker, W. V. Jr. and Cialone, J. C. (1972). An Evaluation of Herbicides for the Control of Weeds in Field-Grown Chrysanthemums. *Proc.Northeast.Weed Sci.Soc.* 26: 51-54.

EcoReference No.: 40610
Chemical of Concern: SZ,NPP,ACR,TFN,EPTC,CPP,PZM; Habitat: T; Effect Codes: MOR,PHY,POP,GRO; Rejection Code: NO CONTROL,NO ENDPOINT(ALL CHEMS).

74. Wilkinson, R. E. and Hardcastle, W. S. (1969). EPTC Effects on Sicklepod Petiolar Fatty Acids. *Weed Sci.* 17: 335-338.

EcoReference No.: 42886
Chemical of Concern: EPTC; Habitat: T; Rejection Code: NO ENDPOINT,NO CONTROL(EPTC).

75. Williams, B. J. and Harvey, R. G. (2000). Effect of Nicosulfuron Timing on Wild-Proso Millet (Panicum miliaceum) Control in Sweet Corn (Zea mays). *Weed Technol.* 14: 377-382.

EcoReference No.: 59737
Chemical of Concern: EPTC,CZE,NSF; Habitat: T; Rejection Code: NO MIXTURE(EPTC).

76. Winget, C. H., Kozlowski, T. T., and Kuntz, J. E. (1963). Effects of Herbicides on Red Pine Nursery Stock. *Weeds* 11: 87-90.

EcoReference No.: 40664
Chemical of Concern: SZ,ATZ,PPZ,EPTC; Habitat: T; Effect Codes: GRO,POP,PHY,MOR; Rejection Code: LITE EVAL CODED(PPZ),OK TARGET(ATZ,SZ),NO ENDPOINT,NO CONTROL(EPTC).

77. Wu, S. Y. and Casida, J. E. (1996). Subacute Neurotoxicity Induced in Mice by Potent Organophosphorus Neuropathy Target Esterase Inhibitors. *Toxicol.Appl.Pharmacol.* 139: 195-202.

EcoReference No.: 98193
Chemical of Concern: FNTH,EPTC,TRL; Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT(EPTC).

78. Zendzian, R. P. (2000). Dermal Absorption of Pesticides in the Rat. *Am.Ind.Hyg.Assoc.J.* 61: 473-483.

EcoReference No.: 97878
Chemical of Concern: GFSNH,CN,MVP,EPTC,HCB,PSM,BMY,TBC,HCCH,IPD,AZ,DS ; Habitat: T; Effect Codes: ACC; Rejection Code: NO ENDPOINT,NO CONTROL(GFSNH,EPTC,PSM,DS).

79. Zendzian, R. P. (2003). Pesticide Residue on/in the Washed Skin and Its Potential Contribution to Dermal Toxicity. *J.Appl.Toxicol.* 23: 121-136.

EcoReference No.: 94210
Chemical of Concern:
VCZ,MTL,CYR,TVP,MLT,MCPA,MTAS,Maneb,EFX,ATZ,AZ,CCA,DDP,DS,EPTC,EFX; Habitat: T; Effect Codes: ACC; Rejection Code: NO ENDPOINT,NO CONTROL(ALL CHEMS).

EPTC
Papers that Were Excluded from ECOTOX

Reference numbers 44, 91, 150, 164 and 314 were papers on mixtures. Additional notes on these papers are provided with the reference.

Excluded

1. 1990). Enhanced Biodegradation of Carbamothioate Herbicides in South Carolina Usa Au - Skipper Hd. *Racke, k. D. And j. R. Coats (ed.). Acs (american chemical society) symposium series, vol. 426. Enhanced biodegradation of pesticides in the environment* 198th national meeting, miami beach, florida, usa, september 10-15, 1989. X+302p. American chemical society: washington, d.c., Usa. Illus. Isbn 0-8412-1784-x.; 0: 37-52.
   Rejection Code: BACTERIA, FATE.

2. Protecting Endangered Species: Interim Measures, Avery County, North Carolina. *Govt reports announcements & index (gra&i), issue 23, 2092*.
   Rejection Code: NO TOX DATA.

3. Red Facts: Eptc. *Govt reports announcements & index (gra&i), issue 10, 2000*.
   Rejection Code: REVIEW.

4. Reregistration Eligibility Decision (Red): Eptc. (Includes Red Facts: Eptc Fact Sheet). *Govt reports announcements & index (gra&i), issue 10, 2000*.
   Rejection Code: HUMAN HEALTH.

5. Aharonson, N. and Katan, J. (1993). Delayed and Enhanced Biodegradation of Soil-Applied Diphenamid, Carbendazim, and Aldicarb. *Arch.Insect Biochem.Physiol.* 22: 451-466.
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6. Albanis, T., Danis, T., Voutsa, D., and Kouimtzis, T. (1995). Evaluation of Chemical Parameters in Aliakmon River Northern Greece. Part Iii. Pesticides. *Journal of environmental science and health part a environmental science and engineering & toxic and hazardous substance control* 30: 1945-1956.
   Rejection Code: FATE, HUMAN HEALTH.

7. Albanis, T. A. (1991). Runoff losses of EPTC, Molinate, Simazine, Diuron, Propanil and Metolachlor in Thermaikos Gulf, N. Greece. *Chemosphere* 22: 645-653.
   Rejection Code: FATE.

8. Albanis, T. A. (1991). Runoff Losses of Eptc, Molinate, Simazine, Diuron, Propanil and Metolachlor in Thermaikos Gulf, Northern Greece. *Chemosphere* 22: 645-654.
   Rejection Code: FATE.

9. Albanis, T. A. and Hela, D. G. (1995). Multi-Residue Pesticide Analysis in Environmental Water Samples Using Solid-Phase Extraction Discs and Gas Chromatography With Flame Thermionic and Mass-Selective Detection. *Journal of chromatography a* 707: 283-292.
   Rejection Code: FATE, CHEM METHODS.

10. Anina, I. A. (Possibility of Using Nucleic Acid Metabolic Indixes for Predicting Long-Term Consequences of the Effect of Some Pesticides. *Gig. Tr. Prof. Zabol. 3: 51-53* 1975..
    Rejection Code: NON-ENGLISH.

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Rejection Code: CHEM METHODS.

13. Ankumah, R. O., Dick, W. A., and Mcclung, G. (1995). Metabolism of Carbamothioate Herbicide Eptc by Rhodococcus Strain Je1 Isolated From Soil. *Soil science society of america journal* 59: 1071-1077.
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15. Anon (1991). Official Plant Protection Agent List With a Plant Protection Device List of the Federal Institute for Plant Protection Vienna Austria Status as of October 31 1990. *Pflanzenschutz (vienna)* 0: 1-78.
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Rejection Code: BACTERIA, FATE.

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Rejection Code: CHEM METHODS.

23. Atkinson, R. , Guicherit, R., Hites, R. A., Palm, W. U., Seiber, J. N., and De Voogt P (1999). Transformations of Pesticides in the Atmosphere: a State of the Art. *Water air and soil pollution* 115: 219-243.
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This is an efficacy study. Data are not conducive to determining measurable endpoints.

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0.875 kg/ha = 0.7805 lb/A; 875 g/ha = 0.7805 lb/A (ratio of 0.000892). 2240 g/ha = 2 lb/A; 4480 g/ha = 4 lb/A. **This is an efficacy study. Lowest amount tested is approximately 2 lb/A. Lowest weed control was 50% (hairy nightshade). Data are not conducive to determining measurable endpoints; nevertheless, based on these data, it is likely that the endpoint is higher than the endpoint from the submitted studies.**

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Spreadsheet: Part I of IV

Ref #	CAS Number	Chemical Name	Species Number	Phylum	Class	Order	Family	Genus	Species	Common Name
74324	759944	EPTC	4510	Chordata	Mammalia	Rodentia	Muridae	Rattus	norvegicus	Norway rat
74324	759944	EPTC	4510	Chordata	Mammalia	Rodentia	Muridae	Rattus	norvegicus	Norway rat
79085	759944	EPTC	4913	Chordata	Mammalia	Rodentia	Muridae	Mus	musculus	House mouse
73593	759944	EPTC	4510	Chordata	Mammalia	Rodentia	Muridae	Rattus	norvegicus	Norway rat
98227	759944	EPTC	11531	Arthropoda	Insecta	Lepidoptera	Plutellidae	Plutella	xylostella	Diamondback moth
98825	759944	EPTC	1161	Nemata	NR	NR	NR	NR	Nemata	Nematode phylum
98826	759944	EPTC	4913	Chordata	Mammalia	Rodentia	Muridae	Mus	musculus	House mouse
98275	759944	EPTC	17304	Ascomycota	Leotiomycetes	Helotiales	Sclerotiniaceae	Sclerotinia	sclerotiorum	Fungus
72796	759944	EPTC	2297	Magnoliophyta	Liliopsida	Arales	Lemnaceae	Lemna	aequinoctiales	Duckweed
42840	759944	EPTC	3896	Magnoliophyta	Liliopsida	Cyperales	Poaceae	Sorghum	bicolor	Sudangrass
42840	759944	EPTC	3369	Magnoliophyta	Magnoliopsida	Violales	Cucurbitaceae	Cucumis	sativus	Cucumber
98330	759944	EPTC	3708	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae	Phaseolus	vulgaris	Bean
98330	759944	EPTC	3708	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae	Phaseolus	vulgaris	Bean
98330	759944	EPTC	3708	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae	Phaseolus	vulgaris	Bean
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage

98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98742	759944	EPTC	18194	Magnoliophyta	Magnoliopsida	Asterales	Asteraceae	Calendula	sp.	Marigold
98742	759944	EPTC	18194	Magnoliophyta	Magnoliopsida	Asterales	Asteraceae	Calendula	sp.	Marigold
98227	759944	EPTC	11531	Arthropoda	Insecta	Lepidoptera	Plutellidae	Plutella	xylostella	Diamondback moth
98227	759944	EPTC	11531	Arthropoda	Insecta	Lepidoptera	Plutellidae	Plutella	xylostella	Diamondback moth
98227	759944	EPTC	11531	Arthropoda	Insecta	Lepidoptera	Plutellidae	Plutella	xylostella	Diamondback moth
98227	759944	EPTC	11531	Arthropoda	Insecta	Lepidoptera	Plutellidae	Plutella	xylostella	Diamondback moth
98227	759944	EPTC	11531	Arthropoda	Insecta	Lepidoptera	Plutellidae	Plutella	xylostella	Diamondback moth
98228	759944	EPTC	11531	Arthropoda	Insecta	Lepidoptera	Plutellidae	Plutella	xylostella	Diamondback moth
98228	759944	EPTC	11531	Arthropoda	Insecta	Lepidoptera	Plutellidae	Plutella	xylostella	Diamondback moth
98228	759944	EPTC	11531	Arthropoda	Insecta	Lepidoptera	Plutellidae	Plutella	xylostella	Diamondback moth
71141	759944	EPTC	11533	Arthropoda	Insecta	Lepidoptera	Noctuidae	Spodoptera	littoralis	Egyptian cotton leafworm
71141	759944	EPTC	11533	Arthropoda	Insecta	Lepidoptera	Noctuidae	Spodoptera	littoralis	Egyptian cotton leafworm
71141	759944	EPTC	11533	Arthropoda	Insecta	Lepidoptera	Noctuidae	Spodoptera	littoralis	Egyptian cotton leafworm
14134	759944	EPTC	77	Arthropoda	Malacostraca	Decapoda	Penaeidae	Penaeus	setiferus	Northern white shrimp

13100	759944	EPTC	1583	Chlorophyta	Chlorophyceae	Volvocales	Dunaliellaceae	Dunaliella	bioculata	Green algae
4651	759944	EPTC	485	Chordata	Actinopterygii	Perciformes	Cichlidae	Tilapia	nilotica	Nile tilapia
4651	759944	EPTC	64	Chordata	Actinopterygii	Cypriniformes	Cyprinidae	Carassius	carassius	Crucian carp
3914	759944	EPTC	964	Arthropoda	Insecta	Diptera	Chironomidae	Chironomus	riparius	Midge
3914	759944	EPTC	964	Arthropoda	Insecta	Diptera	Chironomidae	Chironomus	riparius	Midge
86935	759944	EPTC	206	Chordata	Amphibia	Anura	Pipidae	Xenopus	laevis	African clawed frog
86935	759944	EPTC	206	Chordata	Amphibia	Anura	Pipidae	Xenopus	laevis	African clawed frog
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98228	759944	EPTC	3236	Magnoliophyta	Magnoliopsida	Capparales	Brassicaceae	Brassica	oleracea	Cabbage
98843	759944	EPTC	3708	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae	Phaseolus	vulgaris	Bean
98843	759944	EPTC	3708	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae	Phaseolus	vulgaris	Bean
13583	759944	EPTC	7551	Plantae	NR	NR	NR	NR	Plantae	Plant kingdom
13583	759944	EPTC	7551	Plantae	NR	NR	NR	NR	Plantae	Plant kingdom
13583	759944	EPTC	7551	Plantae	NR	NR	NR	NR	Plantae	Plant kingdom
13583	759944	EPTC	7551	Plantae	NR	NR	NR	NR	Plantae	Plant kingdom
13583	759944	EPTC	7551	Plantae	NR	NR	NR	NR	Plantae	Plant kingdom

13583	759944	EPTC	7551	Plantae	NR	NR	NR	NR	Plantae	Plant kingdom
98228	759944	EPTC	16838	Arthropoda	Insecta	Lepidoptera	Noctuidae	Trichoplusia	ni	Cabbage looper
98228	759944	EPTC	10655	Arthropoda	Insecta	Lepidoptera	Pieridae	Pieris	rapae	Cabbage white
98228	759944	EPTC	11531	Arthropoda	Insecta	Lepidoptera	Plutellidae	Plutella	xylostella	Diamondback moth
98275	759944	EPTC	17304	Ascomycota	Leotiomycetes	Helotiales	Sclerotiniaceae	Sclerotinia	sclerotiorum	Fungus
18093	759944	EPTC	486	Chlorophyta	Chlorophyceae	Chlorococcales	Scenedesmaceae	Pseudokirchneriella	subcapitata	Green algae
18093	759944	EPTC	486	Chlorophyta	Chlorophyceae	Chlorococcales	Scenedesmaceae	Pseudokirchneriella	subcapitata	Green algae
18093	759944	EPTC	486	Chlorophyta	Chlorophyceae	Chlorococcales	Scenedesmaceae	Pseudokirchneriella	subcapitata	Green algae
86410	759944	EPTC	7679	Fungi	NR	NR	NR	NR	Fungi	Fungi Kingdom
18093	759944	EPTC	507	Magnoliophyta	Liliopsida	Arales	Lemnaceae	Lemna	minor	Duckweed
18093	759944	EPTC	507	Magnoliophyta	Liliopsida	Arales	Lemnaceae	Lemna	minor	Duckweed
18093	759944	EPTC	507	Magnoliophyta	Liliopsida	Arales	Lemnaceae	Lemna	minor	Duckweed
98843	759944	EPTC	5234	Magnoliophyta	Liliopsida	NR	NR	NR	Liliopsida	Monocot class
98843	759944	EPTC	5234	Magnoliophyta	Liliopsida	NR	NR	NR	Liliopsida	Monocot class
98825	759944	EPTC	3987	Magnoliophyta	Liliopsida	Cyperales	Poaceae	Zea	mays	Corn
46533	142847	Di-N-propylamine	3541	Magnoliophyta	Magnoliopsida	Asterales	Asteraceae	Lactuca	sativa	Lettuce
46533	142847	Di-N-propylamine	3541	Magnoliophyta	Magnoliopsida	Asterales	Asteraceae	Lactuca	sativa	Lettuce
46533	142847	Di-N-propylamine	3541	Magnoliophyta	Magnoliopsida	Asterales	Asteraceae	Lactuca	sativa	Lettuce

98330	759944	EPTC	3708	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae	Phaseolus	vulgaris	Bean
98330	759944	EPTC	3708	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae	Phaseolus	vulgaris	Bean
98330	759944	EPTC	3708	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae	Phaseolus	vulgaris	Bean
98843	759944	EPTC	3708	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae	Phaseolus	vulgaris	Bean
98843	759944	EPTC	3708	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae	Phaseolus	vulgaris	Bean
98843	759944	EPTC	5235	Magnoliophyta	Magnoliopsida	NR	NR	NR	Magnoliopsida	Dicot class
98843	759944	EPTC	5235	Magnoliophyta	Magnoliopsida	NR	NR	NR	Magnoliopsida	Dicot class
98825	759944	EPTC	1161	Nemata	NR	NR	NR	NR	Nemata	Nematode phylum
98330	759944	EPTC	16352	Nemata	Secernentea	Tylenchida	Criconematidae	Criconemalla	ornata	Ring nematode
98330	759944	EPTC	10911	Nemata	Secernentea	Tylenchida	Heteroderidae	Meloidogyne	incognita	Root-knot nematode
98330	759944	EPTC	10911	Nemata	Secernentea	Tylenchida	Heteroderidae	Meloidogyne	incognita	Root-knot nematode
98330	759944	EPTC	16352	Nemata	Secernentea	Tylenchida	Criconematidae	Criconemalla	ornata	Ring nematode
98330	759944	EPTC	10911	Nemata	Secernentea	Tylenchida	Heteroderidae	Meloidogyne	incognita	Root-knot nematode
98742	759944	EPTC	17312	Nemata	Secernentea	Tylenchida	Heteroderidae	Meloidogyne	hapla	Northern Root Knot Nematode
98742	759944	EPTC	17312	Nemata	Secernentea	Tylenchida	Heteroderidae	Meloidogyne	hapla	Northern Root Knot Nematode
98843	759944	EPTC	7551	Plantae	NR	NR	NR	NR	Plantae	Plant kingdom
98843	759944	EPTC	7551	Plantae	NR	NR	NR	NR	Plantae	Plant kingdom
60074	759944	EPTC	1917	Protozoa	Lobosa	Amoebida	Acanthamoebidae	Acanthamoeba	castellanii	Amoeba
60074	759944	EPTC	1917	Protozoa	Lobosa	Amoebida	Acanthamoebidae	Acanthamoeba	castellanii	Amoeba

98275	759944	EPTC	17304	Ascomycota	Leotiomycetes	Helotiales	Sclerotiniaceae	Sclerotinia	sclerotiorum	Fungus
96666	759944	EPTC	17953	Ascomycota	Sordariomycetes	Diaporthales	Valsaceae	Phomopsis	amaranthicola	Fungus
96666	759944	EPTC	17953	Ascomycota	Sordariomycetes	Diaporthales	Valsaceae	Phomopsis	amaranthicola	Fungus

Spreadsheet: Part II of IV

Ref #	Effect Group	Effect	Meas	Endpt1	Endpt2	Habitat	Plant/ Animal	Media	Dur Orig	Dur Unit Orig	Dur Preferred	Dur Unit Preferred	Conc Type	Conc Value1 Orig	Conc Units Orig	Conc Value1 Purity Adjusted
74324	BCM	BCM	BGBN	LOAEL		terrestrial	Animal	NONE	6	d	6	d	F	100	mg/kg/d	99
74324	BCM	ENZ	ESTE	LOAEL		terrestrial	Animal	NONE	6	d	6	d	F	100	mg/kg/d	99
79085	BCM	ENZ	GSTR	NOAEL		terrestrial	Animal	NONE	1.5	h	0.0625	d	F	100	mg/kg	100
73593	BCM	ENZ	ALDH	ID50		terrestrial	Animal	NONE	8	h	0.33333333	d	A	5.2	mg/kg	5.2
98227	BEH	BEH	ACTV	LOAEL		terrestrial	Animal	NAT	4	ins	4	ins	A	10.4	AI mg	10.4
98825	BEH	BEH	PNPY	NOAEL		terrestrial	Animal	NAT	3	wk	21	d	A	1800	AI g/ha	1800
98826	CEL	GEN	CABR	LOAEL		terrestrial	Animal	NONE	7	d	7	d	F	1	%	1
98275	GRO	MPH	WGHT	NOAEL	LOAEL	terrestrial	NR	AGR	16	d	16	d	A	500	AI ug/ml	500
72796	GRO	GRO	GRRT	EC50		aquatic	Plant	FW	7	d	7	d	A	62.34	uM	62.34
42840	GRO	GRO	LGTH	EC50		Terrestrial	Plant	FLT	6	d	6	d	NR	6.87	1e-5 M	6.87
42840	GRO	GRO	LGTH	EC50		Terrestrial	Plant	FLT	5	d	5	d	NR	4.01	1e-5 M	4.01
98330	GRO	GRO	GREI	NOAEL		terrestrial	Plant	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98330	GRO	GRO	GREI	NOAEL		terrestrial	Plant	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98330	GRO	GRO	GREI	NOAEL		terrestrial	Plant	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98228	GRO	MPH	WGHT	NOAEL		terrestrial	Plant	NAT	28	d	28	d	A	80	AI mg/org	80
98228	GRO	MPH	WGHT	NOAEL		terrestrial	Plant	NAT	28	d	28	d	A	80	AI mg/org	80
98228	GRO	MPH	WGHT	NOAEL		terrestrial	Plant	NAT	28	d	28	d	F	320	AI mg/org	320
98228	GRO	MPH	WGHT	NOAEL		terrestrial	Plant	NAT	28	d	28	d	F	80	AI mg/org	80
98228	GRO	MPH	WGHT	NOAEL		terrestrial	Plant	NAT	18	d	18	d	A	160	AI mg/org	160
98228	GRO	MPH	WGHT	NOAEL		terrestrial	Plant	NAT	26	d	26	d	F	80	mg/org	80
98228	GRO	MPH	WGHT	NOAEL		terrestrial	Plant	NAT	40	d	40	d	F	20	mg/org	20
98228	GRO	MPH	WGHT	NOAEL		terrestrial	Plant	NAT	na	hv	na	hv	A	160	AI mg/org	160
98228	GRO	MPH	WGHT	NOAEL		terrestrial	Plant	NAT	na	hv	na	hv	A	160	AI mg/org	160
98742	GRO	GRO	WGHT	NOAEL	LOAEL	terrestrial	Plant	NAT	12	wk	84	d	F	1	ml/m2	1
98742	GRO	GRO	WGHT	NOAEL		terrestrial	Plant	NAT	8	wk	56	d	F	1	ml/m2	1
98227	MOR	MOR	SURV	LOAEL		terrestrial	Animal	NAT	4	ins	4	ins	A	10.4	AI mg	10.4

98227	MOR	MOR	SURV	LOAEL		terrestrial	Animal	NAT	4	ins	4	ins	A	10.4	AI mg	10.4
98227	MOR	MOR	SURV	NOAEL		terrestrial	Animal	NAT	4	ins	4	ins	A	20.8	AI mg	20.8
98227	MOR	MOR	SURV	LOAEL		terrestrial	Animal	NAT	4	ins	4	ins	A	20.8	AI mg	20.8
98227	MOR	MOR	SURV	NOAEL		terrestrial	Animal	NONE	NA	lvp	NA	lvp	A	0.5	ppm	0.5
98228	MOR	MOR	SURV	LOAEL		terrestrial	Animal	NAT	4	inst	4	inst	F	20	mg/org	20
98228	MOR	MOR	SURV	LOAEL		terrestrial	Animal	NAT	4	inst	4	inst	F	80	mg/org	80
98228	MOR	MOR	SURV	NOAEL		terrestrial	Animal	NAT	4	inst	4	inst	F	160	mg/org	160
71141	MOR	MOR	MORT	NR-ZERO		terrestrial	Animal	NR	24	h	1	d	A	250	AI ug	250
71141	MOR	MOR	HTCH	NR-LETH		terrestrial	Animal	NR	na	ht	na	ht	F	250	ug/org	188.75
71141	MOR	MOR	HTCH	NR-LETH		terrestrial	Animal	NR	na	ht	na	ht	F	250	ug/org	188.75
14134	MOR	MOR	MORT	EC50		aquatic	Animal	SW	48	h	2	d	F	0.63	ppm	0.63
13100	MOR	MOR	MORT	NR-LETH		Aquatic	Plant	NR	48	h	2	d	F	100	uM	100
4651	MOR	MOR	MORT	LC50		aquatic	Animal	FW	96	h	4	d	F	225	ppm	225
4651	MOR	MOR	MORT	LC50		aquatic	Animal	FW	96	h	4	d	F	170	ppm	170
3914	PHY	ITX	IMBL	EC50		Aquatic	Animal	FW	48	h	2	d	A	56000	ug/L	56000
3914	PHY	ITX	IMBL	EC50		Aquatic	Animal	FW	24	h	1	d	A	100000	ug/L	100000
86935	PHY	PHY	CNVY	IC50		aquatic	Animal	NR	5	mi	3.47E-03	d	F	35	uM	35
86935	PHY	PHY	CNVY	IC50		aquatic	Animal	NR	5	mi	3.47E-03	d	F	13	uM	13
98228	PHY	INJ	DAMG	NOAEL		terrestrial	Plant	NAT	18	d	18	d	A	160	AI mg/org	160
98228	PHY	INJ	DAMG	NOAEL		terrestrial	Plant	NAT	26	d	26	d	F	80	mg/org	80
98228	PHY	INJ	DAMG	NOAEL		terrestrial	Plant	NAT	40	d	40	d	F	20	mg/org	20
98228	PHY	INJ	DAMG	NOAEL		terrestrial	Plant	NAT	na	hv	na	hv	A	160	AI mg/org	160
98228	PHY	INJ	DAMG	NOAEL		terrestrial	Plant	NAT	na	hv	na	hv	A	160	AI mg/org	160
98843	PHY	IMM	IFCT	NOAEL		terrestrial	Plant	NAT		hv		hv	F	3.4	kg	3.4
98843	PHY	IMM	IFCT	NOAEL		terrestrial	Plant	NAT		hv		hv	F	3.4	kg	3.4
13583	PHY	PHY	PSYN	EC50		aquatic	Plant	FW	4	h	0.16666667	d	A	75.0 TO 125	ai ppm	75.0 TO 125
13583	PHY	PHY	PSYN	EC100		aquatic	Plant	FW	4	h	0.16666667	d	A	250	ai ppm	250
13583	PHY	PHY	PSYN	EC100		aquatic	Plant	FW	4	h	0.16666667	d	A	250	ai ppm	250
13583	PHY	PHY	PSYN	EC50		aquatic	Plant	FW	4	h	0.16666667	d	A	0.025	ai ppm	0.025
13583	PHY	PHY	ASML	EC50		aquatic	Plant	FW	4	h	0.16666667	d	A	2.50 TO	ai ppm	2.50 TO 75.0

														75.0		
13583	PHY	PHY	ASML	EC100		aquatic	Plant	FW	4	h	0.16666667	d	A	250	ai ppm	250
98228	POP	POP	ABND	NOAEL		terrestrial	Animal	NAT	na	hv	na	hv	A	160	AI mg/org	160
98228	POP	POP	ABND	NOAEL		terrestrial	Animal	NAT	na	hv	na	hv	A	160	AI mg/org	160
98228	POP	POP	ABND	LOAEL		terrestrial	Animal	NAT	na	hv	na	hv	A	160	AI mg/org	160
98275	POP	POP	PGRT	LOAEL		terrestrial	NR	AGR	48	h	2	d	A	1	AI ug/ml	1
18093	POP	POP	BMAS	LOEC		Aquatic	Plant	FW	24 to 96	h	1 TO 4	d	A	6250	ug/L	6250
18093	POP	POP	BMAS	NOEC		Aquatic	Plant	FW	24 to 96	h	1 TO 4	d	A	6250	ug/L	6250
18093	POP	POP	GPOP	EC50		Aquatic	Plant	FW	96	h	4	d	A	6451	ug/L	6451
86410	POP	POP	ABND	LOAEL		terrestrial	NR	NAT	1	wk	7	d	A	10	ug/g soil	10
18093	POP	POP	GPOP	EC50		Aquatic	Plant	FW	96	h	4	d	A	7512	ug/L	7512
18093	POP	POP	BMAS	LOEC		Aquatic	Plant	FW	48 to 96	h	2 TO 4	d	A	10000	ug/L	10000
18093	POP	POP	BMAS	NOEC		Aquatic	Plant	FW	48 to 96	h	2 TO 4	d	A	5000	ug/L	5000
98843	POP	POP	ABND	LOAEL		terrestrial	Plant	NAT		hv		hv	F	3.4	kg	3.4
98843	POP	POP	ABND	NOAEL		terrestrial	Plant	NAT		hv		hv	F	3.4	kg	3.4
98825	POP	POP	BMAS	NOAEL		terrestrial	Plant	NAT	6	wk	42	d	A	1800	AI g/ha	1800
46533	POP	POP	BMAS	EC50		Terrestrial	Plant	NAT	14	d	14	d	NR	370	ug/g soil	351.5
46533	POP	POP	BMAS	EC50		Terrestrial	Plant	NAT	7	d	7	d	NR	383	ug/g soil	363.85
46533	POP	POP	BMAS	EC50		Terrestrial	Plant	HYP	21	d	21	d	NR	100 TO <320	mg/L	95 TO <304
98330	POP	POP	BMAS	NOAEL		terrestrial	Plant	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98330	POP	POP	BMAS	NOAEL		terrestrial	Plant	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98330	POP	POP	BMAS	NOAEL		terrestrial	Plant	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98843	POP	POP	BMAS	NOAEL		terrestrial	Plant	NAT		hv		hv	F	3.4	kg	3.4
98843	POP	POP	BMAS	NOAEL		terrestrial	Plant	NAT		hv		hv	F	3.4	kg	3.4
98843	POP	POP	ABND	NOAEL		terrestrial	Plant	NAT		hv		hv	F	3.4	kg	3.4
98843	POP	POP	ABND	NOAEL		terrestrial	Plant	NAT		hv		hv	F	3.4	kg	3.4
98825	POP	POP	ABND	NOAEL		terrestrial	Animal	NAT	6	wk	42	d	A	1800	AI g/ha	1800

98330	POP	POP	CNTL	LOAEL		terrestrial	Animal	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98330	POP	POP	CNTL	LOAEL		terrestrial	Animal	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98330	POP	POP	CNTL	NOAEL		terrestrial	Animal	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98330	POP	POP	CNTL	NOAEL		terrestrial	Animal	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98330	POP	POP	CNTL	NOAEL		terrestrial	Animal	NAT	48	d	48	d	A	3.36	ai kg/ha	3.36
98742	POP	POP	ABND	NOAEL	LOAEL	terrestrial	Animal	NAT	12	wk	84	d	F	1	ml/m2	1
98742	POP	POP	ABND	LOAEL		terrestrial	Animal	NAT	8	wk	56	d	F	1	ml/m2	1
98843	POP	POP	ABND	LOAEL		terrestrial	Plant	NAT		hv		hv	F	3.4	kg	3.4
98843	POP	POP	ABND	NOAEL		terrestrial	Plant	NAT		hv		hv	F	3.4	kg	3.4
60074	POP	POP	PGRT	NOAEL	LOAEL	aquatic	Animal	FW	120	h	5	d	F	10	ppm	10
60074	POP	POP	PGRT	NOAEL	LOAEL	aquatic	Animal	FW	120	h	5	d	F	1	ppm	1
98275	REP	REP	GERM	NOAEL		terrestrial	NR	AGR	16	d	16	d	A	20	ai ug/g soil	20
96666	REP	REP	GERM	LOAEL		terrestrial	NR	AGR	24.3	h	1.0125	d	F	0.875	kg/ha	0.875
96666	REP	REP	GERM	LOAEL		terrestrial	NR	AGR	24.3	h	1.0125	d	F	0.875	kg/ha	0.875

Spreadsheet: Part III of IV

Ref #	Conc Value1 Preferred	Conc Value2 Orig	Conc Value2 Purity Adjusted	Conc Value2 Preferred	Conc Units Preferred	Number of Conc	pH	Organic Matter Value	Organic Matter Unit	Organic Matter Type	% Purity	Test Loc	Exp Type	Test ID
74324	99				mg/kg/d	1					>99	Lab	IP	NO
74324	99				mg/kg/d	1					>99	Lab	IP	NO
79085	100				mg/kg	1					100	Lab	IP	NO
73593	5.2				mg/kg	5					>96	Lab	IP	NO
98227	10.4				AI mg	1					100	Lab	EN	NO
98825	1800				AI g/ha	1					100	FieldA	SP	NO
98826	1				%	4					100	Lab	GV	NO
98275	500	1000	1000	1000	ppm	9					100	Lab	CM	NO
72796	62.34				uM		5.5*				100	Lab	NR	NO
42840	6.87				1e-5 M					NR	100	Lab	SO	32838
42840	4.01				1e-5 M					NR	100	Lab	DA	32835
98330	2.99712				lb/acre	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO
98330	2.99712				lb/acre	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO
98330	2.99712				lb/acre	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO
98228	80				AI mg/org	4					95	FieldN	EN	NO
98228	80				AI mg/org	4					95	FieldN	EN	NO
98228	320				AI mg/org	4					100	FieldN	EN	NO
98228	80				AI mg/org	4					100	FieldN	EN	NO
98228	160				AI mg/org	1					95	FieldN	EN	NO
98228	80				mg/org	1					100	FieldN	EN	NO
98228	20				mg/org	1					100	FieldN	EN	NO
98228	160				AI mg/org	1					95	FieldN	EN	NO
98228	160				AI mg/org	1					95	FieldN	EN	NO
98742	1	2	2	2	ml/m2	4					100	Lab	DA	NO

98742	1				ml/m2	1					100	Lab	DA	NO
98227	10.4				Al mg	1					100	FieldA	EN	NO
98227	10.4				Al mg	1					100	FieldA	EN	NO
98227	20.8				Al mg	1					100	FieldN	EN	NO
98227	20.8				Al mg	1					100	FieldN	EN	NO
98227	0.5				ppm	5					100	Lab	FD	NO
98228	20				mg/org	1					100	FieldN	EN	NO
98228	80				mg/org	1					100	FieldN	EN	NO
98228	160				mg/org	1					100	FieldN	EN	NO
71141	250				Al ug	1					75.5	Lab	FD	NO
71141	188.75				ug/org	1					75.5	Lab	FD	NO
71141	188.75				ug/org	1					75.5	Lab	FD	NO
14134	0.63				mg/L						100	Lab	F	NO
13100	100				uM					NR	100	LAB	S	104006
4651	225				mg/L	10	7.2 to 7.9				100	Lab	S	NO
4651	170				mg/L	10	7.2 to 8.3				100	Lab	S	NO
3914	56				mg/L					NR	100	LAB	S	108062
3914	100				mg/L					NR	100	LAB	S	108061
86935	35				uM	8					100	Lab	NR	NO
86935	13				uM	5					100	Lab	NR	NO
98228	160				Al mg/org	1					95	FieldN	EN	NO
98228	80				mg/org	1					100	FieldN	EN	NO
98228	20				mg/org	1					100	FieldN	EN	NO
98228	160				Al mg/org	1					95	FieldN	EN	NO
98228	160				Al mg/org	1					95	FieldN	EN	NO
98843	3.4				kg	1					100	FieldN	NR	NO
98843	3.4				kg	1					100	FieldN	NR	NO
13583	75 TO 125				mg/L	9					100	Lab	S	NO
13583	250				mg/L	9					100	Lab	S	NO
13583	250				mg/L	9					100	Lab	S	NO
13583	0.025				mg/L	9					100	Lab	S	NO
13583	2.5 TO 75				mg/L	9					100	Lab	S	NO

13583	250				mg/L	9					100	Lab	S	NO
98228	160				Al mg/org	1					95	FieldN	EN	NO
98228	160				Al mg/org	1					95	FieldN	EN	NO
98228	160				Al mg/org	1					95	FieldN	EN	NO
98275	1				ppm	9					100	Lab	CM	NO
18093	6.25				mg/L					NR	100	LAB	S	159913
18093	6.25				mg/L					NR	100	LAB	S	159914
18093	6.451				mg/L					NR	100	LAB	S	159912
86410	10				ppm	1	7.6*	3.2	%	OM	100	Lab	DA	NO
18093	7.512				mg/L					NR	100	LAB	S	159915
18093	10				mg/L					NR	100	LAB	S	159916
18093	5				mg/L					NR	100	LAB	S	159917
98843	3.4				kg	1					100	FieldN	NR	NO
98843	3.4				kg	1					100	FieldN	NR	NO
98825	1.602				lb/acre	1					100	FieldA	SP	NO
46533	351.5				ppm	>=3	7.5*	1.8	%	OM	>=95	Lab	DA	51105
46533	363.85				ppm	>=3	7.5*	1.8	%	OM	>=95	Lab	DA	51105
46533	95 TO <304				ppm					NR	>=95	Lab	DA	51104
98330	2.99712				lb/acre	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO
98330	2.99712				lb/acre	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO
98330	2.99712				lb/acre	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO
98843	3.4				kg	1					100	FieldN	NR	NO
98843	3.4				kg	1					100	FieldN	NR	NO
98843	3.4				kg	1					100	FieldN	NR	NO
98843	3.4				kg	1					100	FieldN	NR	NO
98825	1800				AI g/ha	1					100	FieldA	SP	NO
98330	3.36				ai kg/ha	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO
98330	3.36				ai kg/ha	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO
98330	3.36				ai kg/ha	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO

98330	3.36				ai kg/ha	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO
98330	3.36				ai kg/ha	1	6.2 to 6.5	0.5	%	OM	100	FieldN	EN	NO
98742	1	2	2	2	ml/m2	4					100	Lab	DA	NO
98742	1				ml/m2	1					100	Lab	DA	NO
98843	3.4				kg	1					100	FieldN	NR	NO
98843	3.4				kg	1					100	FieldN	NR	NO
60074	10	100	100	100	mg/L	4					100	Lab	S	NO
60074	1	10	10	10	mg/L	4					100	Lab	S	NO
98275	20				ppm	4					100	Lab	CM	NO
96666	0.7805				lb/acre	5					100	Lab	GM	NO
96666	0.7805				lb/acre	5					100	Lab	GM	NO

Spreadsheet: Part IV of IV

Ref #	Author	Title	Source	Publication Year	Comments
74324	Zimmerman LJ;Valentine HL;Valentine WM;	Characterization of S-(N,N-Dialkylaminocarbonyl)Cysteine Adducts and Enzyme Inhibition Produced by Thiocarbamate Herbicides in the Rat	Chem Res Toxicol 17(2): 258-267	2004	ORG/Sprague-Dawley strain, initial bw range 225 to 250// EXPDUR/injected for 5 days, rats sacrificed on day 6// EE/B3 globin hemoglobin side chain// EDES/Author tests miochemical effects in rats exposed to test chemical// GENERAL/OEF/ALDH and thiocarbamate metabolites also reported//
74324	Zimmerman LJ;Valentine HL;Valentine WM;	Characterization of S-(N,N-Dialkylaminocarbonyl)Cysteine Adducts and Enzyme Inhibition Produced by Thiocarbamate Herbicides in the Rat	Chem Res Toxicol 17(2): 258-267	2004	ORG/Sprague-Dawley strain, initial bw range 225 to 250// EXPDUR/injected for 5 days, rats sacrificed on day 6// EDES/Author tests miochemical effects in rats exposed to test chemical// GENERAL/OEF/ALDH and thiocarbamate metabolites also reported//
79085	Moorhouse KG;Casida JE;	Pesticides as Activators of Mouse Liver Microsomal Glutathione S-Transferase	Pestic Biochem Physiol 44(2): 83-90	1992	ORG/Initial BW. Albino Swiss Webster// EE/Multiple controls include concurrent and positive controls.//
73593	Hart BW;Faiman MD;	Inhibition of Rat Liver Low Km Aldehyde Dehydrogenase by Thiocarbamate Herbicides. Occupational Implications	Biochem Pharmacol 49(2): 157-163	1995	ORG/250 to 350g Sprague Dawley// EDES/Dose Response. Test concentrations taken from graph.// GENERAL/Time response study also reported without stats. In vitro data also reported.//
98227	Eigenbrode SD;Shelton AM;	Survival and Behavior of Plutella xylostella Larvae on Cabbages with Leaf Waxes Altered by Treatment with S-Ethyl Dipropylthiocarbamate	Entomol Exp Appl 62(2): 139-145	1992	EE/movement rate, endpoint measured in neonates// EDES/Author tests behavior effects in organisms, 200 eggs inoculated onto cabbage plants 1 week after chemical applied to soil of each pot, greenhouse study//
98825	Jordaan EM;De Waele D;	Effects of Four Herbicides on the Infestation of Maize by the Nematode Pratylenchus zeae	S Afr J Plant Soil5(3): 165-	1988	EDES/ten maize seeds inoculated with 10000 nematodes per pot//
98826	Kowalska-Wochna E;Pawlowska D;	In Vivo Analysis of Eptam Genotoxic Action on Mouse (Mus musculus) Chromosomes	Genet Pol 29(2): 171-180	1988	ORG/Swiss Strain// EXPDUR/Also at 14 days// BCF = NR//
98275	Cerkauskas RF;Verma PR;McKenzie DL;	Effects of Herbicides on In Vitro Growth and Carpogenic Germination of Sclerotinia sclerotiorum	Can J Plant Pathol 8(2): 161-166	1986	ORG/mono-ascosporic isolate// EE/sclerotia weight//
72796	Michel A;Johnson RD;Duke SO;Scheffler BE;	Dose-Response Relationships Between Herbicides with Different Modes of Action and Growth of Lemna paucicostata: An Improved Ecotoxicological Method	Environ Toxicol Chem 23(4): 1074-1079	2004	ORG/bilobed colony// GENERAL/solvent and water controls used// BCF = NR//

42840	Sund KA;Nomura N;	Laboratory Evaluation of Several Herbicides	Weed Res 3(): 35-43	1963	ORG/var. SA 372, Coleoptile OR HYPOCOTYL 2-4 MM// EE/ENDPT/MD50// CHAR/EPTC, CAS# 9016459 - ALSO USED AS SOLVENT//
42840	Sund KA;Nomura N;	Laboratory Evaluation of Several Herbicides	Weed Res 3(): 35-43	1963	ORG/var. Straight 8// EE/ENDPT/MD50// CHAR/EPTC, CAS# 9016459 - ALSO USED AS SOLVENT//
98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/cv. GV 50// EE/significant increase in growth index// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //
98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/cv. Nemasnap// EE/significant increase in growth index// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //
98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/cv. Eagle// EE/significant increase in growth index// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// EE/glossiness also reported// CHAR/7E//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// EE/glossiness also reported// CHAR/7E//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// EE/glossiness also reported// CHAR/10G//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// EE/glossiness also reported// CHAR/10G//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// CHAR/7E//

98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// CHAR/10G//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// CHAR/10G//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// EDES/application rate is quantity per plant// CHAR/7E//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Bravo// EDES/application rate is quantity per plant// CHAR/7E//
98742	Feyaerts H;Coosemans J;Vander Elst I;	Synergistic Activity of Thiocarbamate Herbicides, Used Together with Carbamate Nematicides in the Control of Root Knot Nematodes (Meloidogyne)	Med Fac Landbouww Rijksuniv Gent 55(2b): 745-752	1990	EE/also reported for combined leaf, shoot and flower weights// EDES/Author tests growth effects in plants, soil infested with nematodes, chemical concentrations calculated from usual application dose of 1 ml/m2 as follows 0.5, 1, 2 and 4 times usual application dose// GENERAL/OEF/temperature study and MORT also reported, no endpoint, combined dosage concentrations//
98742	Feyaerts H;Coosemans J;Vander Elst I;	Synergistic Activity of Thiocarbamate Herbicides, Used Together with Carbamate Nematicides in the Control of Root Knot Nematodes (Meloidogyne)	Med Fac Landbouww Rijksuniv Gent 55(2b): 745-752	1990	EE/combined leaf, stem and flower weights// EDES/Author tests growth effects in plants, soil infested with nematodes, chemical concentrations calculated from usual application dose of 1 ml/m2 as follows 0.5, 1, 2 and 4 times usual application dose// GENERAL/mixture study also reported//
98227	Eigenbrode SD;Shelton AM;	Survival and Behavior of Plutella xylostella Larvae on Cabbages with Leaf Waxes Altered by Treatment with S-Ethyl Dipropylthiocarbamate	Entomol Exp Appl 62(2): 139-145	1992	EXPDUR/pots censused when larvae reached the 4th instar stage// EDES/Author tests survival effects in organisms, 200 eggs inoculated onto cabbage plants 1 week after chemical applied to soil of each pot, potted plant study 1//
98227	Eigenbrode SD;Shelton AM;	Survival and Behavior of Plutella xylostella Larvae on Cabbages with Leaf Waxes Altered by Treatment with S-Ethyl Dipropylthiocarbamate	Entomol Exp Appl 62(2): 139-145	1992	EXPDUR/pots censused when larvae reached the 4th instar stage// EDES/Author tests survival effects in organisms, 200 eggs inoculated onto cabbage plants 1 week after chemical applied to soil of each pot, potted plant study 2//
98227	Eigenbrode SD;Shelton AM;	Survival and Behavior of Plutella xylostella Larvae on Cabbages with Leaf Waxes Altered by Treatment with S-Ethyl Dipropylthiocarbamate	Entomol Exp Appl 62(2): 139-145	1992	EXPDUR/plants censused when larvae reached the 4th instar stage// EDES/Author tests survival effects in organisms, 300 eggs inoculated onto cabbage plants 1 week after chemical applied to soil at the base of each plant, field study 1//

98227	Eigenbrode SD;Shelton AM;	Survival and Behavior of Plutella xylostella Larvae on Cabbages with Leaf Waxes Altered by Treatment with S-Ethyl Dipropylthiocarbamate	Entomol Exp Appl 62(2): 139-145	1992	EXPDUR/plants censused when larvae reached the 4th instar stage// EDES/Author tests survival effects in organisms, 300 eggs inoculated onto cabbage plants 1 week after chemical applied to soil at the base of each plant, field study 2//
98227	Eigenbrode SD;Shelton AM;	Survival and Behavior of Plutella xylostella Larvae on Cabbages with Leaf Waxes Altered by Treatment with S-Ethyl Dipropylthiocarbamate	Entomol Exp Appl 62(2): 139-145	1992	EXPDUR/measured at pupation// EDES/Author tests survival effects in organisms, artificial diet study//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	CHAR/10G//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	CHAR/10G//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	EE/percent fresh marketable heads// EDES/application rate is quantity per plant// CHAR/10G//
71141	El-Ibrashy MT;	The Herbicide Eptam 6-E: A Selective Female Chemosterilant for the Egyptian Cotton Leafworm, Spodoptera littoralis	Experientia27(): 808-809	1971	ORG/last instar//
71141	El-Ibrashy MT;	The Herbicide Eptam 6-E: A Selective Female Chemosterilant for the Egyptian Cotton Leafworm, Spodoptera littoralis	Experientia27(): 808-809	1971	ORG/last instar// GENERAL/replicate 2//
71141	El-Ibrashy MT;	The Herbicide Eptam 6-E: A Selective Female Chemosterilant for the Egyptian Cotton Leafworm, Spodoptera littoralis	Experientia27(): 808-809	1971	ORG/last instar// GENERAL/replicate 4//
14134	Butler PA;	Effects of Herbicides on Estuarine Fauna	Proc South Weed Conf 18(): 576-580	1965	
13100	Felix HR;Chollet R;Harr J;	Use of the Cell Wall-Less Alga Dunaliella bioculata in Herbicide Screening Tests	Ann Appl Biol 113(1): 55-60	1988	CHAR/T//
4651	Santiago LP;Recometa RD;	Bio-Assay: Evaluation of Three Agricultural Herbicides on the Survival of Nile Tilapia (Tilapia nilotica) and Crucian Carp (Carassius carassius Anon) Fingerlings	In: Tech Rep No 20, Freshwater Aquacult Cent , Cent Luzon State Univ :(): 19-29	1981	ORG/5.0 to 13.5 g, 69.0 to 87.0 mm// EXPDUR/other durations also reported// EE/reported as TL50//

4651	Santiago LP;Recometa RD;	Bio-Assay: Evaluation of Three Agricultural Herbicides on the Survival of Nile Tilapia (Tilapia nilotica) and Crucian Carp (Carassius carassius Anon) Fingerlings	In: Tech Rep No 20, Freshwater Aquacult Cent , Cent Luzon State Univ :(): 19-29	1981	ORG/3.5 to 12.0 g, 65.0 to 89.0 mm// EXPDUR/other durations also reported// EE/reported as TL50//
3914	Buhl KJ;Faerber NL;	Acute Toxicity of Selected Herbicides and Surfactants to Larvae of the Midge Chironomus riparius	Arch Environ Contam Toxicol 18(4): 530-536	1989	CHAR/ERADICANE, 82.6 % AI//
3914	Buhl KJ;Faerber NL;	Acute Toxicity of Selected Herbicides and Surfactants to Larvae of the Midge Chironomus riparius	Arch Environ Contam Toxicol 18(4): 530-536	1989	CHAR/ERADICANE, 82.6 % AI//
86935	Smulders CJGM;Van Kleef RGDM;De Groot A;Gotti C;Vijverberg HPM;	A Noncompetitive, Sequential Mechanism for Inhibition of Rat alpha4beta2 Neuronal Nicotinic Acetylcholine Receptors by Carbamate Pesticides	82(1): 219-227	2004	EDES/Author tests physiological effects in oocytes exposed to test chemical in saline solution, exposed to low 1 uM concentration of ACh, expressing rat a4B2 nAChRs//
86935	Smulders CJGM;Van Kleef RGDM;De Groot A;Gotti C;Vijverberg HPM;	A Noncompetitive, Sequential Mechanism for Inhibition of Rat alpha4beta2 Neuronal Nicotinic Acetylcholine Receptors by Carbamate Pesticides	82(1): 219-227	2004	EDES/Author tests physiological effects in oocytes exposed to test chemical in saline solution, exposed to high 1 mM concentration of ACh, expressing rat a4B2 nAChRs//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// EE/percent fresh marketable heads// CHAR/7E//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// EE/percent fresh marketable heads// CHAR/10G//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// EE/percent fresh marketable heads// CHAR/10G//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Market Prize// EE/significant increase in marketable heads, plant damage score also reported// EDES/application rate is quantity per plant// CHAR/7E//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	ORG/transplanted cv. Bravo// EE/significant decrease in plant damage scores, percent marketable heads also reported// EDES/application rate is quantity per plant// CHAR/7E//

98843	Gilbertson RL;Ruppel EG;Schweizer EE;	Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi	Plant Dis 71(7): 627-629	1987	ORG/cv. Olathe// EE/Disease Severity Index// EDES/Bean Study conducted on fields under rotational planting of corn, barley and beet in addition to the bean.// GENERAL/Mixture studies also reported// BCF = NR//
98843	Gilbertson RL;Ruppel EG;Schweizer EE;	Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi	Plant Dis 71(7): 627-629	1987	ORG/cv. Olathe// EE/Disease Severity Index// EDES/Bean Study conducted on fields under rotational planting of corn, barley and beet in addition to the bean.// GENERAL/Mixture studies also reported// BCF = NR//
13583	Girman GR;	The Effects of a Number of Herbicides upon Photosynthesis and Heterotrophy of Naturally Occurring Algal and Bacterial Communities in Delta Marsh, Manitoba	M S Thesis, University of Manitoba, Winnipeg, Manitoba(): 179 p.-	1975	ORG/phytoplankton// CHAR/8 lb. a.i. per imperial gallon//
13583	Girman GR;	The Effects of a Number of Herbicides upon Photosynthesis and Heterotrophy of Naturally Occurring Algal and Bacterial Communities in Delta Marsh, Manitoba	M S Thesis, University of Manitoba, Winnipeg, Manitoba(): 179 p.-	1975	ORG/phytoplankton// CHAR/8 lb. a.i. per imperial gallon//
13583	Girman GR;	The Effects of a Number of Herbicides upon Photosynthesis and Heterotrophy of Naturally Occurring Algal and Bacterial Communities in Delta Marsh, Manitoba	M S Thesis, University of Manitoba, Winnipeg, Manitoba(): 179 p.-	1975	ORG/periphyton// CHAR/8 lb. a.i. per imperial gallon//
13583	Girman GR;	The Effects of a Number of Herbicides upon Photosynthesis and Heterotrophy of Naturally Occurring Algal and Bacterial Communities in Delta Marsh, Manitoba	M S Thesis, University of Manitoba, Winnipeg, Manitoba(): 179 p.-	1975	ORG/periphyton// CHAR/8 lb. a.i. per imperial gallon//
13583	Girman GR;	The Effects of a Number of Herbicides upon Photosynthesis and Heterotrophy of Naturally Occurring Algal and Bacterial Communities in Delta Marsh, Manitoba	M S Thesis, University of Manitoba, Winnipeg, Manitoba(): 179 p.-	1975	ORG/phytoplankton// EE/assimilation of C14-glucose// CHAR/8 lb. a.i. per imperial gallon//
13583	Girman GR;	The Effects of a Number of Herbicides upon Photosynthesis and Heterotrophy of Naturally Occurring Algal and Bacterial Communities in Delta Marsh, Manitoba	M S Thesis, University of Manitoba, Winnipeg, Manitoba(): 179 p.-	1975	ORG/phytoplankton// EE/assimilation of C14-glucose// CHAR/8 lb. a.i. per imperial gallon//

98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	EDES/application rate is quantity per plant// CHAR/7E//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	EDES/application rate is quantity per plant// CHAR/7E//
98228	Eigenbrode SD;Shelton AM;Kain WC;Leichtweis H;Spittler TD;	Managing Lepidopteran Pests in Cabbage with Herbicide-Induced Resistance, in Combination with a Pyrethroid Insecticide	Entomol Exp Appl 69(1): 41-50	1993	EDES/application rate is quantity per plant// CHAR/7E//
98275	Cerkauskas RF;Verma PR;McKenzie DL;	Effects of Herbicides on In Vitro Growth and Carpogenic Germination of Sclerotinia sclerotiorum	Can J Plant Pathol 8(2): 161-166	1986	ORG/mono-ascosporic isolate//
18093	Fairchild JF;Ruessler DS;Haverland PS;Carlson AR;	Comparative Sensitivity of Selenastrum capricornutum and Lemna minor to Sixteen Herbicides	Arch Environ Contam Toxicol 32(): 353-357	1997	ORG/20000 CELLS/ML// EDES/ASTM MEDIA// CHAR/EPTC//
18093	Fairchild JF;Ruessler DS;Haverland PS;Carlson AR;	Comparative Sensitivity of Selenastrum capricornutum and Lemna minor to Sixteen Herbicides	Arch Environ Contam Toxicol 32(): 353-357	1997	ORG/20000 CELLS/ML// EDES/ASTM MEDIA// CHAR/EPTC//
18093	Fairchild JF;Ruessler DS;Haverland PS;Carlson AR;	Comparative Sensitivity of Selenastrum capricornutum and Lemna minor to Sixteen Herbicides	Arch Environ Contam Toxicol 32(): 353-357	1997	ORG/20000 CELLS/ML// EE/FLUORESCENCE// EDES/ASTM MEDIA// CHAR/EPTC//
86410	Tu CM;	Influence of Ten Herbicides on Activities of Microorganisms and Enzymes in Soil	Bull Environ Contam Toxicol 51(1): 30-39	1993	EXPDUR/other duration also reported// GENERAL/bacterial effects also reported//
18093	Fairchild JF;Ruessler DS;Haverland PS;Carlson AR;	Comparative Sensitivity of Selenastrum capricornutum and Lemna minor to Sixteen Herbicides	Arch Environ Contam Toxicol 32(): 353-357	1997	ORG/12 FRONDS// EE/FROND COUNT// EDES/NUTRIENT ENRICHED WATER// CHAR/EPTC//
18093	Fairchild JF;Ruessler DS;Haverland PS;Carlson AR;	Comparative Sensitivity of Selenastrum capricornutum and Lemna minor to Sixteen Herbicides	Arch Environ Contam Toxicol 32(): 353-357	1997	ORG/12 FRONDS// EDES/NUTRIENT ENRICHED WATER// CHAR/EPTC//
18093	Fairchild JF;Ruessler DS;Haverland PS;Carlson AR;	Comparative Sensitivity of Selenastrum capricornutum and Lemna minor to Sixteen Herbicides	Arch Environ Contam Toxicol 32(): 353-357	1997	ORG/12 FRONDS// EDES/NUTRIENT ENRICHED WATER// CHAR/EPTC//
98843	Gilbertson RL;Ruppel EG;Schweizer EE;	Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi	Plant Dis 71(7): 627-629	1987	ORG/Grassy Weeds// EDES/Bean Study conducted on fields under rotational planting of corn, barley and beet in addition to the bean.// GENERAL/Mixture studies also

					reported// BCF = NR//
98843	Gilbertson RL;Ruppel EG;Schweizer EE;	Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi	Plant Dis 71(7): 627-629	1987	ORG/Grassy Weeds// EDES/Bean Study conducted on fields under rotational planting of corn, barley and beet in addition to the bean.// GENERAL/Mixture studies also reported// BCF = NR//
98825	Jordaan EM;De Waele D;	Effects of Four Herbicides on the Infestation of Maize by the Nematode Pratylenchus zeae	S Afr J Plant Soil5(3): 165-	1988	ORG/inbred line K64R// EE/fresh weight of root mass, only conc tested, also reported dry weight// EDES/one maize plant inoculated with 2500 nematodes per pot//
46533	Hulzebos EM;Adema DMM;Dirven-Van Breemen EM;Henzen L;Van Dis WA;Herbold HA;Hoekstra JA;Baerselman R;Van Gestel CAM;	Phytotoxicity Studies with Lactuca sativa in Soil and Nutrient Solution	Environ Toxicol Chem 12(6): 1079-1094	1993	ORG/Ravel R2// EDES/RIVM//
46533	Hulzebos EM;Adema DMM;Dirven-Van Breemen EM;Henzen L;Van Dis WA;Herbold HA;Hoekstra JA;Baerselman R;Van Gestel CAM;	Phytotoxicity Studies with Lactuca sativa in Soil and Nutrient Solution	Environ Toxicol Chem 12(6): 1079-1094	1993	ORG/Ravel R2// EDES/RIVM//
46533	Hulzebos EM;Adema DMM;Dirven-Van Breemen EM;Henzen L;Van Dis WA;Herbold HA;Hoekstra JA;Baerselman R;Van Gestel CAM;	Phytotoxicity Studies with Lactuca sativa in Soil and Nutrient Solution	Environ Toxicol Chem 12(6): 1079-1094	1993	ORG/Ravel R2// EDES/RIVM//
98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/cv. GV 50// EE/yield, plant abundance also reported// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //

98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/cv. Nemasnap// EE/yield, plant abundance also reported// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //
98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/cv. Eagle// EE/yield, plant abundance also reported// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //
98843	Gilbertson RL;Ruppel EG;Schweizer EE;	Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi	Plant Dis 71(7): 627-629	1987	ORG/cv. Olathe// EE/Yield// EDES/Bean Study conducted on fields under rotational planting of corn, barley and beet in addition to the bean.// GENERAL/Mixture studies also reported// BCF = NR//
98843	Gilbertson RL;Ruppel EG;Schweizer EE;	Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi	Plant Dis 71(7): 627-629	1987	ORG/cv. Olathe// EE/Yield// EDES/Bean Study conducted on fields under rotational planting of corn, barley and beet in addition to the bean.// GENERAL/Mixture studies also reported// BCF = NR//
98843	Gilbertson RL;Ruppel EG;Schweizer EE;	Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi	Plant Dis 71(7): 627-629	1987	ORG/Broadleaf Weeds// EDES/Bean Study conducted on fields under rotational planting of corn, barley and beet in addition to the bean.// GENERAL/Mixture studies also reported// BCF = NR//
98843	Gilbertson RL;Ruppel EG;Schweizer EE;	Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi	Plant Dis 71(7): 627-629	1987	ORG/Broadleaf weeds// EDES/Bean Study conducted on fields under rotational planting of corn, barley and beet in addition to the bean.// GENERAL/Mixture studies also reported// BCF = NR//
98825	Jordaan EM;De Waele D;	Effects of Four Herbicides on the Infestation of Maize by the Nematode Pratylenchus zeae	S Afr J Plant Soil5(3): 165-	1988	EE/other durations reported, also reported reproduction rate, only conc tested// EDES/one maize plant inoculated with 2500 nematodes per pot//
98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/host crop snapbean, cv. Eagle// EE/root gall index also reported// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //
98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/host crop snapbean, cv. Eagle// EE/root gall index also reported// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //
98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/host crop snapbean, cv. Nemasnap// EE/root gall index also reported// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //

98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/host crop snapbean, cv. Nemasnap// EE/root gall index also reported// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //
98330	Johnson AW;Smittle DA;Sumner DR;Glaze NC;	Efficacy and Compatibility for Fenamiphos and EPTC Applied in Irrigation Water for Nematode and Weed Control in Snapbean Production	J Nematol 26(4): 690-696	1994	ORG/host crop snapbean, cv. GV 50// EE/root gall index also reported// EDES/applied through a sprinkle system// GENERAL/mixtures also reported //
98742	Feyaerts H;Coosemans J;Vander Elst I;	Synergistic Activity of Thiocarbamate Herbicides, Used Together with Carbamate Nematicides in the Control of Root Knot Nematodes (Meloidogyne)	Med Fac Landbouww Rijksuniv Gent 55(2b): 745-752	1990	EE/root knots per plant, also reported as per gram of root weight// EDES/Author tests population effects in nematodes, soil infested with nematodes, chemical concentrations calculated from usual application dose of 1 ml/m2 as follows 0.5, 1, 2 and 4 times usual application dose// GENERAL/OEF/temperature study and MORT also reported, no endpoint, combined dosage concentrations//
98742	Feyaerts H;Coosemans J;Vander Elst I;	Synergistic Activity of Thiocarbamate Herbicides, Used Together with Carbamate Nematicides in the Control of Root Knot Nematodes (Meloidogyne)	Med Fac Landbouww Rijksuniv Gent 55(2b): 745-752	1990	EE/root knots per gram of root weight// EDES/Author tests population effects in nematode, soil infested with nematodes, chemical concentrations calculated from usual application dose of 1 ml/m2 as follows 0.5, 1, 2 and 4 times usual application dose// GENERAL/mixture study also reported//
98843	Gilbertson RL;Ruppel EG;Schweizer EE;	Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi	Plant Dis 71(7): 627-629	1987	EDES/Bean Study conducted on fields under rotational planting of corn, barley and beet in addition to the bean.// GENERAL/Mixture studies also reported// BCF = NR//
98843	Gilbertson RL;Ruppel EG;Schweizer EE;	Effects of Herbicides on Root Rot of Pinto Bean, Weeds, and Two Soilborne Fungi	Plant Dis 71(7): 627-629	1987	EDES/Bean Study conducted on fields under rotational planting of corn, barley and beet in addition to the bean.// GENERAL/Mixture studies also reported// BCF = NR//
60074	Prescott LM;Olson DL;	The Effect of Pesticides on the Soil Amoeba Acanthamoeba castellanii (Neff)	Proc South D Acad Sci 51(): 136-141	1972	ORG/10000 amoebae / cc, I-12 STRAIN// EE/Beneficial at 10 ppm// EDES/Trial 1//
60074	Prescott LM;Olson DL;	The Effect of Pesticides on the Soil Amoeba Acanthamoeba castellanii (Neff)	Proc South D Acad Sci 51(): 136-141	1972	ORG/10000 amoebae / cc, I-12 STRAIN// EDES/Trial 2//
98275	Cerkauskas RF;Verma PR;McKenzie DL;	Effects of Herbicides on In Vitro Growth and Carpogenic Germination of Sclerotinia sclerotiorum	Can J Plant Pathol 8(2): 161-166	1986	ORG/mono-ascosporic isolate// EE/carpogenic germination//

96666	Wyss GS;Charudattan R;Rosskopf EN;Littell RC;	Effects of Selected Pesticides and Adjuvants on Germination and Vegetative Growth of Phomopsis amaranthicola, a Biocontrol Agent for Amaranthus spp.	Weed Res 44(6): 469-482	2004	EXPDUR/20 m in suspension followed by 24 h incubation// EE/inhibited germination at all concentations// EDES/Tests performed at 0.25x, 05x, .75x, 1x, and 2x Highest Labelled product rate, based on application volume 468 L per ha, spore suspension mixed with test solution, let stand for 20 min, spread evenly on 1.4% water agar and then cultured// CHAR/Lorox DF ai 500 g per kg//
96666	Wyss GS;Charudattan R;Rosskopf EN;Littell RC;	Effects of Selected Pesticides and Adjuvants on Germination and Vegetative Growth of Phomopsis amaranthicola, a Biocontrol Agent for Amaranthus spp.	Weed Res 44(6): 469-482	2004	EXPDUR/20 m in suspension followed by 24 h incubation// EE/inhibited germination at all concentations// EDES/Tests performed at 0.25x, 05x, .75x, 1x, and 2x Highest Labelled product rate, based on application volume 468 L per ha, spore suspension mixed with test solution, let stand for 20 min, spread evenly on 1.4% water agar and then cultured// CHAR/Lorox DF ai 500 g per kg//