

Appendix H: Bibliography of ECOTOX Open Literature Not Used in Risk Assessment

Imazapyr RED 2005 (06/21/2005)

Acceptable for ECOTOX and OPP

1. Bovey, R. W. and Senseman, S. A. (1998). **Response of Food and Forage Crops to Soil-Applied Imazapyr.** *Weed Sci.* 46: 614-617.

EcoReference No.: 63637

Chemical of Concern: IZP; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(IZP).

Endpoints not as sensitive as submitted MRID data.

2. Burnet, M. W. M., Hart, Q., Holtum, J. A. M., and Powles, S. B. (1994). **Resistance to Nine Herbicide Classes in a Population of Rigid Ryegrass (*Lolium rigidum*).** *Weed Sci.* 42: 369-377.

EcoReference No.: 70736

Chemical of Concern: SZ,ATZ,SXD,IZP; Habitat: T; Effect Codes: GRO,PHY; Rejection Code:

TARGET(SZ,SXD,IZP). **Efficacy study. No useful endpoints.**

3. Charles, G. W. (1997). **Herbicide Strategies for Reducing Nutgrass (*Cyperus rotundus* L.) Density in Cotton (*Gossypium hirsutum* L.).** *Aust.J.Exp.Agric.* 37: 231-241.

EcoReference No.: 73428

Chemical of Concern: 24DXY,PDM,GYP,ATZ,DU,NFZ,IZP; Habitat: T; Effect Codes: GRO; Rejection Code:

NO COC(MTL),TARGET(IZP). **Efficacy study. No useful endpoints.**

4. Coffman, C. B., Frank, J. R., and Potts, W. E. (1993). **Crop Responses to Hexazinone, Imazapyr, Tebuthiuron, and Triclopyr.** *Weed Technol.* 7: 140-145.

EcoReference No.: 57805

Chemical of Concern: TPR,TET,IZP,HXZ; Habitat: T; Effect Codes: PHY; Rejection Code: LITE EVAL

CODED(IZP),OK(ALL CHEMS). **Less sensitive endpoint.**

5. Creager, R. A. (1990). **Control of Young Mediterranean Saltwort (*Salsola vermiculata*) with Postemergence Herbicides.** *Weed Technol.* 4: 376-379.

EcoReference No.: 70416

Chemical of Concern: SZ,ATZ,IZP,DMB; Habitat: T; Effect Codes: MOR,GRO; Rejection Code:

TARGET(SZ,DMB,IZP). **Efficacy study. No useful endpoints.**

6. Grisolia, C. K. (2002). **A Comparison Between Mouse and Fish Micronucleus Test Using Cyclophosphamide, Mitomycin C and Various Pesticides.** *Mutat.Res.* 518: 145-150.

EcoReference No.: 74478

Chemical of Concern: THM,DM,IZP,GYP,DCF; Habitat: AT; Effect Codes: CEL; Rejection Code: LITE EVAL

CODED(IZP),OK(ALL CHEMS). Exposure through intraperitoneal route; test was in vitro. No established quantitative relationship between mutagenicity, survival and reproduction.

7. Kuk, Y. I., Kim, K. H., Kwon, O. D., Lee, D. J., Burgos, N. R., Jung, S., and Guh, J. O. (2003). **Cross-Resistance Pattern and Alternative Herbicides for *Cyperus difformis* Resistant to Sulfonylurea Herbicides in Korea.** *Pest Manag.Sci.* 60: 85-94.

EcoReference No.: 74722

Chemical of Concern: MLT,TBC,BTC,CFZ,DTP,ODZ,IZP; Habitat: T; Effect Codes: POP,GRO; Rejection Code: NO ENDPOINT(MLT),TARGET(IZP). Efficacy study. No useful endpoints.

8. Lawrie, J. and Clay, D. V. (1989). **Tolerance of Forestry and Biomass Broad-Leaved Tree Species to Soil-Acting Herbicides**. In: *Br.Crop Prot.Counc., Brighton Crop Prot.Conf.: Weeds, Volumes 1-3, Int.Conf., Nov.20-23, 1989, Brighton, England* 347-354.

EcoReference No.: 70642

Chemical of Concern: SZ,ATZ,IZP; Habitat: T; Effect Codes: POP,GRO,BCM; Rejection Code: TARGET(SZ,IZP). Efficacy study. No useful endpoints.

9. Masters, R. A., Stougaard, R. N., and Nissen, S. J. (1994). **Leafy Spurge (Euphorbia esula) Control with Fall-Applied Imazapyr, Imazaquin and Imazethapyr**. *Weed Technol.* 8: 58-63.

EcoReference No.: 56091

Chemical of Concern: IZT,IMQ,IZP; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(IZP),OK(ALL CHEMS). Endpoints not as sensitive as MRID studies. In addition, imazapyr was applied as a single chemical, not a mixture.

10. Osuna, M. D. and De Prado, R. (2003). **Conyza albida: A New Biotype with ALS Inhibitor Resistance**. *Weed Res.* 43: 221-226.

EcoReference No.: 72252

Chemical of Concern: SZ,DU,24D,GLY,IZP; Habitat: T; Effect Codes: GRO; Rejection Code: TARGET(SZ,IZP). Efficacy study. No useful endpoints.

11. Wilcut, J. W., Walls, F. R. Jr., and Horton, D. N. (1991). **Imazethapyr for Broadleaf Weed Control in Peanuts (Arachis hypogaea)**. *Peanut Sci.* 18: 26-30.

EcoReference No.: 73239

Chemical of Concern: MTL,IZP; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE(MTL),TARGET(IZP). This is imazethapyr, not imazapyr.

Imazapyr RED (06/21/2005): Acceptable for ECOTOX but not OPP

1. Clay, D. V. and West, T. M. (1987). **The Response of Traizine Resistant and Susceptible Biotypes of Erigeron canadensis to 23 Herbicides**. *Meded.Fac.Landbouwwet.Rijksuniv.Gent* 52: 1195-1206.

EcoReference No.: 70179

User Define 2: REPS,WASH,CALF,CORE,SENT

Chemical of Concern:

SZ,PHMD,GYP,AMTL,24DXY,TPR,OYZ,CPR,PCH,DU,NPP,OXF,NFZ,ODZ,PDM,PAQT,PYD,IZP,FXP;

Habitat: T; Effect Codes: PHY,GRO; Rejection Code: NO ENDPOINT(ALL CHEMS).

2. Duncan, K. W. and McDaniel, K. C. (1998). **Saltcedar (Tamarix spp.) Management with Imazapyr**. *Weed Technol.* 12: 337-344.

EcoReference No.: 64697

Chemical of Concern: IZP,GYP; Habitat: T; Effect Codes: MOR; Rejection Code: NO ENDPOINT,CONTROL(IZP),NO MIXTURE(GYP).

3. Garcia-Torres, L., Lopez-Granados, F., and Castejon-Munoz, M. (1994). **Pre-emergence Herbicides for the Control of Broomrape (Orobancha cernua Loeffl.) in Sunflower (Helianthus annuus L.)**. *Weed Res.* 34: 395-402.

EcoReference No.: 74066

Chemical of Concern: MTL,IZP,IMQ,PMS,TSF,ACO,IMB; Habitat: T; Effect Codes: GRO,PHY,POP; Rejection Code: NO ENDPOINT(ALL CHEMS).

4. Harrington, T. B., Minogue, P. J., Lauer, D. K., and Ezell, A. W. (1998). **Two-Year Development of Southern Pine Seedlings and Associated Vegetation Following Spray-and-Burn Site Preparation with Imazapyr Alone or in Mixture with Other Herbicides.** *New For.* 15: 89-106.

EcoReference No.: 67263

Chemical of Concern: IZP,GYP,TPR; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT(ALL CHEMS).

5. Jurado-Exposito, M., Garcia-Torres, L., and Castejon-Munoz, M. (1997). **Broad Bean and Lentil Seed Treatments with Imidazolinones for the Control of Broomrape (Orobanche crenata).** *J.Agric.Sci.* 129: 307-314.

EcoReference No.: 64689

Chemical of Concern: IZP,IZT; Habitat: T; Effect Codes: GRO,POP; Rejection Code: NO ENDPOINT(ALL CHEMS).

6. Kuhns, L. J. and Kaps, M. A. (1986). **Sulfometuron Methyl and Imazapyr Applied as a Directed Spray on White Pine.** *Proc.Northeast.Weed Sci.Soc.* 40: 263-264.

EcoReference No.: 31014

Chemical of Concern: IZP,SMM; Habitat: T; Effect Codes: POP,PHY; Rejection Code: NO ENDPOINT(ALL CHEMS).

7. Kuk, Y. I., Jung, H. I., Kwon, O. D., Lee, D. J., Burgos, N. R., and Guh, J. O. (2003). **Sulfonylurea Herbicide-Resistant Monochoria vaginalis in Korean Rice Culture.** *Pest Manag.Sci.* 59: 949-961.

EcoReference No.: 74168

Chemical of Concern: MLT,IZP,IMQ,BSFM,BTC,DTP,TBC,24DXY,BT; Habitat: T; Effect Codes: GRO,POP,BCM,PHY; Rejection Code: NO CONTROL(ALL CHEMS).

8. Kuk, Y. I., Kwon, O. D., Jung, H. I., Burgos, N. R., and Guh, J. O. (2002). **Cross-Resistance Pattern and Alternative Herbicides for Rotala indica Resistant to Imazosulfuron in Korea.** *Pestic.Biochem.Physiol.* 74: 129-138.

EcoReference No.: 71288

Chemical of Concern: MLT,BSFM,IZP,IMQ,BTC,CFZ,TBC,MCPB; Habitat: A; Effect Codes: BCM,GRO,MOR; Rejection Code: NO MIXTURE(MLT,MCPB),NO ENDPOINT(IZP).

9. Office of Pesticide Programs (2000). **Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)).** *Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.*

EcoReference No.: 344

Chemical of Concern:

24DXY,ACL,ACP,ACR,ALSV,AQS,ATZ,AZ,BDF,BMC,BML,BMN,BRSM,BS,BT,CaPS,Captan,CBF,CBL,CFE,CFE,CLNB,CLP,CMPH,CPC,CPY,CTN,CTZ,Cu,CuO,CuS,CYD,CYF,CYP,CYT,DBN,DCNA,DDAC,DFT,DFZ,DM,DMB,DMM,DMP,DMT,DOD,DPC,DPDP,DS,DSP,DU,DZ,DZM,EFL,EFS,EFV,EP,FHX,FMP,FO,Folpet,FP P,FVL,GYP,HCCH,HXZ,IPD,IZP,LNR,MAL,MB,MBZ,MDT,MFX,MFZ,MGK,MLN,MLT,MOM,MP,MTC,MTL,MTM,NAA,Naled,NFZ,NPP,NTP,OXF,OXT,OYZ,PCP,PCZ,PDM,PEB,PHMD,PMR,PMT,PNB,PPB,PPG,PPMH,PQT,PRB,PRT,PSM,PYN,PYZ,RSM,RTN,SMM,SMT,SS,SXD,SZ,TBC,TDC,TDF,TDZ,TET,TFN,TFR,TMT,TP R,TRB,WFN,ZnP; Habitat: AT; Effect Codes: MOR,POP,PHY,GRO,REP; Rejection Code: NO EFED (344).

10. Roshon, R. D., McCann, J. H., Thompson, D. G., and Stephenson, G. R. (1999). **Effects of Seven Forestry Management Herbicides on Myriophyllum sibiricum, as Compared with Other Nontarget Aquatic**

Organisms. *Can.J.For.Res.* 29: 1158-1169.

EcoReference No.: 60978

Chemical of Concern: 24DXY,GYP,HXZ,IZP,MSFM,SMM,TPR; Habitat: A; Effect Codes: GRO,MOR;
Rejection Code: NO CONTROL(ALL CHEMS).

11. Shaner, D. L. (1988). **Absorption and Translocation of Imazapyr in Imperata cylindrica (L.) Raeuschel and Effects on Growth and Water Usage.** *Trop.Pest Manag.* 34: 388-392.

EcoReference No.: 72379

Chemical of Concern: IZP; Habitat: T; Effect Codes: ACC,GRO,PHY; Rejection Code: NO ENDPOINT(IZP).

12. Siritworakul, M. and Benyasut, P. (1992). **Control and Utilization of Cattail (Typha latifolia L.).** *Manuscript, Weed Control and Research Branch, R.Irrig.Dep.Pakret Nonthaburi 11120, Thailand* 13.

EcoReference No.: 13377

Chemical of Concern: GYP,IZP; Habitat: A; Effect Codes: POP; Rejection Code: NO ENDPOINT(ALL CHEMS).

13. Standell, C. J. and West, T. M. (1989). **Response of Several Pasture Grass Species to Potential New Herbicides for Bracken Control.** *In: Br.Crop Prot.Counc., Brighton Crop Prot.Conf.: Weeds, Volumes 1-3, Int.Conf, Nov.20-23, 1989, Brighton, England, U.K.* 903-908.

EcoReference No.: 77489

Chemical of Concern: IZP,CSF,ASM,TSF; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT(ALL CHEMS).

14. Supamataya, K., Papong, P., and Phromkunthong, W. (1981). **Phytotoxicity of Herbicides in Water. I. Acute Toxicity of Imazapyron Nile Tilapia (Sarotherodon niloticus) and Silver Barb (Puntius goninotus).** *Songklanakarinn J.Sci.Technol.*9(3):309-313 (THA) (ENG ABS).

EcoReference No.: 3994

Chemical of Concern: IZP; Habitat: A; Effect Codes: MOR; Rejection Code: NO FOREIGN.

15. Yokoyama, T., Saka, H., Fujita, S., and Nishiuchi, Y. (1988). **Sensitivity of Japanese Eel, Anguilla japonica, to 68 Kinds of Agricultural Chemicals.** *Bull.Agric.Chem.Insp.Stm.* 28: 26-33 (JPN) (ENG ABS).

EcoReference No.: 8570

Chemical of Concern:

ACP,Captan,CBL,CTN,DMT,DS,DZ,FO,HXZ,MDT,MLN,MOM,PPG,PSM,TET,CYP,FVL,PMR,TFR,Cu,CuS,PC P,IZP; Habitat: A; Effect Codes: MOR; Rejection Code: NO FOREIGN.

16. Bond, J. A.; Griffin, J. L.; Ellis, J. M.; Linscombe, S. D., and Williams, B. J. Corn and Rice Response to Simulated Drift of Imazethapyr Plus Imazapyr. 2006; 20, (1): 113-117. Keywords: MIXTURE
Notes: Chemical of Concern: IZP – This study appeared in one of the searches but was not on the final bibliography. The endpoint for imazapyr as part of a mixture is not as sensitive as the MRID endpoint used in the risk assessment.

Acceptable for ECOTOX and OPP

Nelson, L. S., Skogerboe, J. G., and Getsinger, K. D. (2001). Herbicide Evaluation Against Giant Salvinia. *J.Aquat.Plant Manag.* 39: 48-53.

EcoReference No.: 71381

Chemical of Concern: EDT,Cu,GYP,IZP; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(IZP),NO MIXTURE(EDT),OK(Cu,GYP). Not as sensitive as MRID

Yandoc, C. B., Roskopf, E. N., Pitelli, R. L. C. M., and Charudattan, R. (2006). Effect of Selected Pesticides on Conidial Germination and Mycelial Growth of *Dactylaria higginsii*, a Potential Bioherbicide for Purple Nutsedge (*Cyperus rotundus*). *Weed Technol.* 20: 255-260.

EcoReference No.: 88572

Chemical of Concern: CYR,DCF,SXD,IZP,FSTAI,CUDH,MLX,TPM,Du,GYP,OXF; Habitat: T; Effect Codes: GRO,REP; Rejection Code: LITE EVAL CODED(IZP),OK(ALL CHEMS). No significant effects for imazapyr

IMAZAPYR post-RED (June 2005 - February 2007): Acceptable for ECOTOX but not OPP

Cole, E. C., Newton, M., and White, D. E. (1986). Response of Northwestern Hardwoods, Shrubs, and Douglas-Fir to Arsenal and Escort. *P W S Wd S* 39: 93-101.

EcoReference No.: 31057

Chemical of Concern: IZP,As; Habitat: T; Effect Codes: MOR,GRO; Rejection Code: OK TARGET(IZP).

Dixon, F. L. and Clay, D. V. (2002). Imazapyr Application to *Rhododendron ponticum*: Speed of Action and Effects on Other Vegetation. *Forestry* 75: 217-225.

EcoReference No.: 87636

Chemical of Concern: IZP; Habitat: T; Effect Codes: GRO; Rejection Code: OK TARGET(IZP).

Hanlon, C. G. and Brady, M. (2005). Mapping the Distribution of Torpedograss and Evaluating the Effectiveness of Torpedograss Management Activities in Lake Okeechobee, Florida. *J.Aquat.Plant Manage.* 43: 24-29.

EcoReference No.: 88517

Chemical of Concern: IZP,GYP; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT(IZP,GYP).

Lawrie, J. and Clay, V. (1993). Effects of Herbicide Mixtures and Additives on *Rhododendron ponticum*. *Weed Res.* 33: 25-34.

EcoReference No.: 83007

Chemical of Concern: TPR,IZP,GYP,MTSM,THFM,TNM; Habitat: T; Effect Codes: PHY,GRO; Rejection Code: TARGET(IZP).

May, W. E., LaFond, G. P., Johnson, E. N., Hogg, T., Johnston, A. M., Nybo, B., Harker, N., and Clayton, G. (2003). An Assessment of the Concept of Early Time of Weed Removal in Field Pea Using Natural Weed

Populations. *Can.J.Plant Sci.* 83: 423-431 .

EcoReference No.: 81481

Chemical of Concern: IZP; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(IZP).

Nadler-Hassar, T. and Rubin, B. (2003). Natural Tolerance of *Cuscuta campestris* to Herbicides Inhibiting Amino Acid Biosynthesis. *Weed Res.* 43: 341-347.

EcoReference No.: 82304

Chemical of Concern: IZP,GYP; Habitat: T; Effect Codes: MOR,GRO,BCM; Rejection Code: TARGET(IZP).

Torstensson, L. and Borjesson, E. (2004). Use of Imazapyr Against *Equisetum arvense* on Swedish Railway Tracks. *Pest Manag.Sci.* 60: 565-569.

EcoReference No.: 87323

Chemical of Concern: DU,GYP,IZP; Habitat: T; Effect Codes: POP; Rejection Code: NO CONTROL,ENDPOINT(ALL CHEMS).

Welch, J. R., Miller, K. V., Palmer, W. E., and Harrington, T. B. (2004). Response of Understory Vegetation Important to the Northern Bobwhite Following Imazapyr and Mechanical Treatments. *Wildl.Soc.Bull.* 32: 1071-1076.

EcoReference No.: 87322

Chemical of Concern: IZP; Habitat: T; Effect Codes: POP; Rejection Code: OK(TARGET-IZP).