

Cadmium Publications Identified as Acceptable for Plants and Invertebrates

Published literature that reported soil toxicity to terrestrial invertebrates and plants was identified, retrieved and screened. Published literature was deemed Acceptable if it met all 11 study acceptance criteria (Fig. 3.3 in section 3 “DERIVATION OF PLANT AND SOIL INVERTEBRATE ECO-SSLs” and ATTACHMENT J in Standard Operating Procedure #1: Plant and Soil Invertebrate Literature Search and Acquisition). **Each study was further screened through nine specific study evaluation criteria** (Table 3.2 Summary of Nine Study Evaluation Criteria for Plant and Soil Invertebrate Eco-SSLs, also in section 3 and ATTACHMENT A in Standard Operating Procedure #2: Plant and Soil Invertebrate Literature Evaluation and Data Extraction, Eco-SSL Derivation, Quality Assurance Review, and Technical Write-up.) **Publications identified as Not Acceptable did not meet one or more of these criteria. All Not Acceptable publications have been assigned one or more keywords categorizing the reasons for rejection** (Table 1. Literature Rejection Categories in Standard Operating Procedure #4: Wildlife TRV Literature Review, Data Extraction and Coding).

EcoReference Number: 58146 / In Process file#: 18784

Achazi, R. K., Chroszcz, G., Duker, C., Henneken, M., Rothe, B., Schaub, K., and Steudel, I. 1995. The Effect of Fluoranthene (Fla), Benzo(a)pyrene (BaP) and Cadmium (Cd) upon Survival Rate and Life Cycle Parameter of Two Terrestrial Annelids in Laboratory Test Systems
15642. Newslett.Enchytraeidae 4, 7-14

EcoReference Number: 40565 / In Process file#: 2125

Adema, D. M. M. and Henzen, L. 1989. A Comparison of Plant Toxicities of Some Industrial Chemicals in Soil Culture and Soilless Culture. *Ecotoxicol.Environ.Saf.* 18[2], 219-229

EcoReference Number: 46820 / In Process file#: 4087

Aery, N. C. and Jagetiya, B. L. 1997. Relative Toxicity of Cadmium, Lead, and Zinc on Barley. *Commun.Soil Sci.Plant Anal.* 28[11/12], 949-960

EcoReference Number: 40549 / In Process file#: 6276

Bengtsson, G., Gunnarsson, T., and Rundgen, S. 1986. Effects of Metals Pollution on the Earthworm *Dendrobaena rubida* (Sav.) in Acidified Soils. *Water Air Soil Pollut.* 28, 361-383

EcoReference Number: 44415 / In Process file#: 12986

Biro, B., Kovcs-Pechy, K., Voros, I., and Kadar, I. 1998. Toxicity of Some Field Applied Heavy Metal Salts to the Rhizobial and Fungal Microsymbionts of Alfalfa and Red Clover. *Agrokem.Talajtan* 47[1-4], 265-276

EcoReference Number: 57308 / Bjerre, G. K. and Schierup, H. H. 1985. Uptake of Six Heavy Metals by Oat as Influenced by Soil Type and Additions of Cadmium, Lead, Zinc, and Copper. *Plant Soil* 88, 57-69

EcoReference Number: 56458 / Boggess, S. F., Hassett, J. J., and Koeppe, D. E. 1978. Effect of Soil Phosphorus Fertility Level on the Uptake of Cadmium by Maize. *Environ.Pollut.* 15[4], 265-270

EcoReference Number: 55994 / In Process file#: 11771

Chen, C. G. H. and Wang, K. 1996. Effect of Cd on Quality, Physiological and Biochemical Characteristics

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of Mulberry Leaves and Its Mechanism. Yingyong Shengtai Xuebao 7[4], 417-423

EcoReference Number: 44367 / In Process file#: 13142

Cieslinski, G., Neilsen, G. H., and Hogue, E. J. 1996. Effect of soil cadmium application and pH on growth and cadmium accumulation in roots, leaves and fruit of strawberry plants (*Fragaria .times. ananassa* Duch.). Plant Soil 180[2], 267-276

EcoReference Number: 46691 / Conder, J. M. and Lanno, R. P. 2000. Evaluation of Surrogate Measures of Cadmium, Lead, and Zinc Bioavailability to *Eisenia fetida*. Chemosphere 41, 1659-1668

EcoReference Number: 44300 / In Process file#: 14257

Coppola, S., Dumontet, S., Pontonio, M., Basile, G., and Marino, P. 1988. Effect of Cadmium-Bearing Sewage Sludge on Crop Plants and Microorganisms in Two Different Soils. Agric.Ecosyst.EnvIRON. 20, 181-194

EcoReference Number: 40498 / In Process file#: 1913

Crommentuijn, T., Brils, J., and Van Straalen, N. M. 1993. Influence Of Cadmium On Life-History Characteristics Of *Folsomia candida* (Willem) In An Artificial Soil Substrate. Ecotoxicol Environ Saf 26[2], 216-227

EcoReference Number: 40227 / In Process file#: 5305

Crommentuijn, T., Staab, J. A., Doornekamp, A., Estoppey, O., and Van Gestel, C. A. M. 1995. Comparative Ecotoxicity Of Cadmium, Chlorpyrifos And Triphenyltin Hydroxide For Four Clones Of The Parthenogenetic Collembolan *Folsomia candida* In An Artificial Soil. Funct Ecol 9[5], 734-742

EcoReference Number: 45354 / In Process file#: 18893

Crouau, Y., Chenon, P., and Gisclard, C. 1999. The Use of *Folsomia candida* (Collembola, Isotomidae) for the Bioassay of Xenobiotic Substances and Soil Pollutants. Appl.Soil Ecol. 12[2], 103-111

EcoReference Number: 48511 / In Process file#: 12906

Dang, Y. P., Chhabra, R., and Verma, K. S. 1990. Effect of Cd, Ni, Pb and Zn on Growth and Chemical Composition of Onion and Fenugreek. Commun.Soil Sci.Plant Anal. 21[9/10], 717-735

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EcoReference Number: 44320 / In Process file#: 5048

De Haan, S. 1985. Acceptable Levels of Heavy Metals (Cd, Cr, Cu, Ni, Pb, Zn) in Soils. Hren (Gr), The Netherlands (Rapport 9-85) (Cited in Janus and Krajnc 1989)

EcoReference Number: 46532 / In Process file#: 4125

De Varennes, A., Torres, M. O., Coutinho, J. F., Rocha, M. M. G. S., and Neto, M. M. P. M. 1996. Effects of Heavy Metals on the Growth and Mineral Composition of a Nickel Hyperaccumulator. J.Plant Nutr. 19[5], 669-676

EcoReference Number: 40570 / In Process file#: 7450

Dixon, R. K. 1988. Response of Ectomycorrhizal *Quercus rubra* to Soil Cadmium, Nickel and Lead. Soil Biol Biochem 20[4], 555-559

EcoReference Number: 40479 / In Process file#: 7877

Donkin, S. G. and Dusenbery, D. B. 1994. Using the *Caenorhabditis elegans* Soil Toxicity Test to Identify Factors Affecting Toxicity to Identify Factors Affecting Toxicity of Four Metal Ions in Intact Soil. Water Air Soil Pollut 78, 359-373

EcoReference Number: 40405 / In Process file#: 2550

Fitzpatrick, L. C., Muratti Ortiz, J. F., Venables, B. J., and Goven, A. J. 1996. Comparative Toxicity In Earthworms *Eisenia fetida* And *Lumbricus terrestris* Exposed To Cadmium Nitrate Using Artificial Soil And Filter Paper Protocols. Bull Environ Contam Toxicol 57[1], 63-68

EcoReference Number: 44317 / In Process file#: 12989

Fodor, L. 1998. Effect of Heavy Metals on Wheat and Maize Crop on Brown Forest Soil. Agrokem.Talajtan 47[1/4], 197-206

EcoReference Number: 44393 / In Process file#: 12237

Gaur, A. and Gupta, S. K. 1994. Lipid components of mustard seeds (*brassica juncea* l.) As influenced by cadmium levels. Plant Foods for Human Nutrition (Dordrecht) 46[2], 93-102

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EcoReference Number: 40458 / In Process file#: 11130

Gunnarsson, T. and Rundgren, S. 1986. Nematode Infestation And Hatching Failure Of Lumbricid Cocoons In Acidified And Metal Polluted Soils. *Pedobiologia* 29[3], 165-173

EcoReference Number: 40564 / In Process file#: 7099

Gunther, P. and Pestemer, W. 1990. Risk Assessment for Selected Xenobiotics by Bioassay Methods with Higher Plants. *Environ Manage* 14, 381-388

EcoReference Number: 45587 / In Process file#: 12374

Gupta, V. K. and Dixit, M. L. 1992. Influence of Soil Applied Cadmium on Growth and Nutrient Composition of Plant Species. *J.Indian Soc.Soil Sci.* 40[4], 878-880

EcoReference Number: 44418 / In Process file#: 1298

Haghiri, F. 1973. Cadmium Uptake by Plants. *J Environ Qual* 2[1], 93-96

EcoReference Number: ECOREF / In Process file#: 11154

Hartenstein, R., Neuhauser, E. F., and Narahara, A. 1981. Effects Of Heavy Metal And Other Elemental Additives To Activated Sludge On Growth Of Eisenia Foetida 42542. *J Environ Qual* 10[3], 372-376

EcoReference Number: 40571 / In Process file#: 7467

Hassett, J. J., Miller, J. E., and Koeppe, D. E. 1976. Interaction of Lead and Cadmium on Maize Root Growth and Uptake of Lead and Cadmium by Roots. *Environ Pollut* 11, 297-302

EcoReference Number: 45951 / In Process file#: 4445

He, Q. B. and Singh, B. R. 1994. Crop Uptake of Cadmium from Phosphorus Fertilizers: I. Yield and Cadmium Content. *Water Air Soil Pollut.* 74[3/4], 251-265

EcoReference Number: 50064 / In Process file#: 12153

He, Qi Bin and Singh, Bal Ram. 1995. Cadmium availability to plants as affected by repeated applications of phosphorus fertilizers. *Acta Agric.Scand.Sect.B Soil Plant Sci.* 45[1], 22-31

EcoReference Number: ECOREF / In Process file#: 2427

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Honeycutt, M. E., Roberts, B. L., and Roane, D. S. 1995. Cadmium Disposition In The Earthworm *Eisenia fetida* 42840. *Ecotoxicol.Environ.Saf.* 30[2], 143-150

EcoReference Number: 40486 / In Process file#: 5515

Kammenga, J. E., Koert, P. H. G., Riksen, J. A. G., Korthals, G. W., and Bakker, J. 1996. A toxicity test in artificial soil based on the life-history strategy of the nematode *Plectus acuminatus*. *Environmental Toxicology and Chemistry* 15[5], 722-727

EcoReference Number: 40572 / In Process file#: 4813

Kelly, J. M., Parker, G. R., and Mcfee, W. W. 1979. Heavy Metal Accumulation and Growth of Seedlings of Five Forest Species as Influenced by Soil Cadmium Level. *J Environ Qual* 8, 361-364

EcoReference Number: 46709 / In Process file#: 16359

Kick, H., Nosbers, R., and Warnusz, J. 1971. The Availability of Cr, Ni, Zn, Cd, Sn and Pb for Plants. *Proc.Int.Symp.Soil Fert.Eval.*, Volume 1, New Delhi, India , 1039-1045

EcoReference Number: 40534 / In Process file#: 4402

Korthals, G. W., Ende, A. van de, Megen, H. van, Lexmond, T. M., Kammenga, J. E., and Bongers, T. 1996. Short-Term Effects of Cadmium, Copper, Nickel and Zinc on Soil Nematodes from Different Feeding and Life-History Strategy Groups. *Appl.Soil Ecol.* 4[2], 107-117

EcoReference Number: 46529 / In Process file#: 3975

Lehoczky, E., Szabo, L., Horvath, S., Marth, P., and Szabados, I. 1998. Cadmium Uptake by Lettuce in Different Soils. *Commun.Soil Sci.Plant Anal.* 29[11/14], 1903-1912

EcoReference Number: 46502 / In Process file#: 4212

Lehoczky, E. I. Szabados and P. Marth. 1996. Cadmium Content of Plants as Affected by Soil Cadmium Concentration. *Commun.Soil Sci.Plant Anal.* 27[5-8], 1765-1777

EcoReference Number: 40414 / In Process file#: 11151

Ma, W. C. 1982. The Influence of Soil Properties and Worm-Related Factors on the Concentrations of Heavy Metals in Earthworms. *Pedobiologia* 24, 109-119

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EcoReference Number: 51774 / In Process file#: 17967

MacLean, A. J. 1976. Cadmium in Different Plant Species and Its Availability in Soils as Influenced by Organic Matter and Additions of Lime, P, Cd and Zn. Can J Soil Sci 56, 129-138

EcoReference Number: 44570 / In Process file#: 21747

Mahler, R. J., Ryan, J. A., and Reed, T. 1987. Cadmium Sulfate Application to Sludge-Amended Soils. I. Effect on Yield and Cadmium Availability to Plants. Sci Total Environ 67[2/3], 117-131

EcoReference Number: 44531 / In Process file#: 7505

Miles, L. J. and Parker, G. R. 1979. The Effect of Soil-Added Cadmium on Several Plant Species. J Environ Qual 8[2], 229-232

EcoReference Number: 52246 / In Process file#: 21293

Miles, L. J. and Parker, G. R. 1980. Effects of Cadmium on a One-time Drought Stress on Survival and Yield of Native Plant Species. J Environ Qual 9[2], 278-283

EcoReference Number: 44586 / In Process file#: 21526

Mitchell, G. A. 1977. Relative Phytotoxicity, Uptake, and Interactive Effects of Cd, Cu, Ni, and Zn to Plants Grown on Soils Amended with Metal-Enriched Sewage Sludge. PhD Thesis. Univ. of Calif. Riverside, CA 38[4], 95

EcoReference Number: 45950 / In Process file#: 20938

Monette, L. K. 1978. The Effects of Salinity as Sodium Chloride and the Absorption of Zinc and Cadmium by Barley and Spinach. PhD Thesis, University of California, Davis, CA: 99 p.

EcoReference Number: 46507 / In Process file#: 4469

Narwal, R. P. M. Singh J. P. Singh and D. J. Dahiya. 1993. Cadmium-Zinc Interaction in Maize Grown on Sewer Water Irrigated Soil. Arid Soil Res.Rehabil. 7, 125-131

EcoReference Number: 40489 / In Process file#: 6812

Neuhauser, E. F., Loehr, R. C., Milligan, D. L., and Malecki, M. R. 1985. Toxicity of Metals to the Earthworm *Eisenia fetida*. Biol.Fertil.Soils 1[3], 149-152

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EcoReference Number: 40578 / In Process file#: 17707

Neuhauser, E. F., Loehr, R. C., and Malecki, M. R. 1985. Contact and Artificial Soil Tests Using Earthworms to Evaluate the Impact of Wastes in Soil. In: J.K.Petros,Jr., W.J.Lacy, and R.A.Conway (Eds.), Hazardous and Industrial Solid Waste Testing: 4th Symposium, ASTM STP 886, Philadelphia, PA 886, 192-203

EcoReference Number: 53082 / Peredney, C. L. and Williams, P. L. 2000. Utility of Caenorhabditis elegans for Assessing Heavy Metal Contamination in Artificial Soil. Arch.Environ.Contam.Toxicol. 39[1], 113-118

EcoReference Number: 56449 / Peredney, C. L. and Williams, P. L. 2000. Comparison of the Toxicological Effects of Nitrate Versus Chloride Metallic Salts on Caenorhabditis elegans in Soil. In: F.T.Price, K.V.Brix, and N.K.Lane (Eds.), Recent Achievements in Environmental Fate and Transport, 9th Volume, ASTM STP 1381, West Conshohocken, PA , 256-268

EcoReference Number: 44354 / In Process file#: 11508

Phillips, Carlton T., Checkai, Ronald T., and Berg, Dorothy A. 1996. Standardized earthworm toxicity testing: comparison of artificial soil vs. natural soil using selected chemical pollutants on the earthworm *Eisenia foetida*. In: D.A.Berg (Eds.), ERDEC-SP-043, Proc.ERDEC Sci.Conf.Chem.Biol.Def.Res., Nov.14-17, 1995, Aberdeen Proving Ground, MD , 685-691

EcoReference Number: 46511 / In Process file#: 12330

Piotrowska, M. and S. Dudka. 1994. Estimation of Maximum Permissible Levels of Cadmium in a Light Soil by Using Cereal Plants. Water Air Soil Pollut. 73[1-4], 179-188

EcoReference Number: 44571 / In Process file#: 4770

Reber, H. H. 1989. Threshold levels of cadmium for soil respiration and growth of spring wheat (*Triticum aestivum* L.), and difficulties with their determination. Biol.Fertil.Soils 7[2], 152-157

EcoReference Number: 46493 / In Process file#: 7523

Rehab, F. I. and A. Wallace. 1978. Excess Trace Metal Effects on Cotton: 6. Nickel and Cadmium in Yolo Loam Soil. Commun.Soil Sci.Plant Anal. 9[8], 779-784

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EcoReference Number: 53574 / In Process file#: 14983

Reuss, J., Dooley, H. L., and Griffis, W. 1976. Plant Uptake of Cadmium from Phosphate Fertilizer. EPA 600/3-76-053, Ecol Res Ser , 43

EcoReference Number: 40415 / In Process file#: 11553

Roembke, J. 1989. Enchytraeus albidus (Enchytraeidae, Oligochaeta) as a test organism in terrestrial laboratory systems. Arch.Toxicol Suppl, NBiol.Monit.Exposure Response Subcell.Level Toxic Subst. 13, 402-405

EcoReference Number: 46702 / In Process file#: 7531

Sadana, U. S. and Singh, B. 1987. Yield and Uptake of Cadmium, Lead and Zinc by Wheat Grown in a Soil Polluted with Heavy Metals. J.Plant Sci.Res. 3, 11-17

EcoReference Number: 46707 / In Process file#: 7532

Sadana, U. S. and Bijay-Singh, B. 1987. Effect of Zinc Application on Yield and Cadmium Content of Spinach (Spinacea oleracea L.) Grown in a Cadmium-Polluted Soil. Ann.Biol. 3[2], 59-60

EcoReference Number: 40483 / In Process file#: 4056

Sandifer, R. D. and Hopkin, S. P. 1996. Effects Of Ph On The Toxicity Of Cadmium, Copper, Lead And Zinc To Folsomia Candida Willem, 1902 (Collembola) In A Standard Laboratory Test System. Chemosphere 33[12], 2475-2486

EcoReference Number: 40577 / In Process file#: 758

Sandifer, R. D. and Hopkin, S. P. 1997. Effects of Temperature on the Relative Toxicities of Cd, Cu, Pb, and Zn to Folsomia candida (Collembola). Ecotoxicol Environ Saf 37, 125-130

EcoReference Number: 44426 / In Process file#: 12627

Sarkunan, V., Misra, A. K., and Nayar, P. K. 1991. Effect of compost lime and phosphorus on cadmium toxicity in rice. J Indian Soc Soil Sci 39[3], 595-597

EcoReference Number: 46706 / In Process file#: 11844

Sarkunan, V., Misra, A. K., and Mohapatra, A. R. 1996. Effect of Cd and Zn on Yield and Cd and Zn Content in Rice. J.Indian Soc.Soil Sci. 44[2], 346-348

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EcoReference Number: 40554 / In Process file#: 10388

Simon, L., Martin, H. W., and Adriano, D. C. 1996. Chicory (*Cichorium intybus* L.) and Dandelion (*Taraxacum officinale* Web.) as Phytoindicators of Cadmium Contamination. *Water Air Soil Pollut* 91[3-4], 351-362

EcoReference Number: 46700 / In Process file#: 14008

Simon, L. 1998. Cadmium Accumulation and Distribution in Sunflower Plant. *J.Plant Nutr.* 21[2], 341-352

EcoReference Number: 44428 / In Process file#: 7536

Singh, A., Goyal, N. K., and Gupta, A. P. 1991. Effect of Cadmium and Farm Yard Manure on the Concentration and Uptake of Zinc by Wheat in Texturally Different Soils. *Crop Res* 4[2], 199-205

EcoReference Number: 44383 / In Process file#: 12529

Singh, B., Kumar, V., Antil, R. S., and Ahlawat, V. S. 1992. Cadmium intake by wheat as influenced by nitrogen and fym application in sandy soil. *Crop Res* 5[2], 243-248

EcoReference Number: 45596 / In Process file#: 12400

Singh, B. R. and Jeng, A. S. 1993. Uptake of Zinc, Cadmium, Mercury, Lead, Chromium and Nickel by Ryegrass Grown in a Sandy Soil. *Norw.J.Agric.Sci.* 7[2], 147-157

EcoReference Number: 46704 / In Process file#: 4556

Singh, R. K., Shukla, R. P., and Dwivedi, R. S. 1992. Effect of Cadmium, Cobalt and Nickel Salts on the Survivability of Sclerotia and Plant Infection by *Sclerotium rolfsii* Causing Root-Rot Disease of Barley. *Trop.Sci.* 32[3], 269-274

EcoReference Number: 46697 / In Process file#: 4746

Singh, S. P., Takkak, P. N., and Nayyar, V. K. 1989. Effect of Cadmium on Wheat as Influenced by Lime and Manure and Its Toxic Level in Plant and Soil. *Int.J.Envirn.Stud.* 33[1/2], 59-66

EcoReference Number: 44285 / In Process file#: 13622

Singh, S. P. and Nayyar, V. K. 1989. Effect of cadmium and zinc on growth of corn in a coarse texture soil (Typic Ustipsamments). *Int.J.Envirn.Stud.* 34[1-2], 57-63

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Published literature that reported soil toxicity to terrestrial invertebrates and plants was identified, retrieved and screened. Published literature was deemed Acceptable if it met all 11 study acceptance criteria (Fig. 3.3 in section 3 “DERIVATION OF PLANT AND SOIL INVERTEBRATE ECO-SSLs” and ATTACHMENT J in Standard Operating Procedure #1: Plant and Soil Invertebrate Literature Search and Acquisition). **Each study was further screened through nine specific study evaluation criteria** (Table 3.2 Summary of Nine Study Evaluation Criteria for Plant and Soil Invertebrate Eco-SSLs, also in section 3 and ATTACHMENT A in Standard Operating Procedure #2: Plant and Soil Invertebrate Literature Evaluation and Data Extraction, Eco-SSL Derivation, Quality Assurance Review, and Technical Write-up.) **Publications identified as Not Acceptable did not meet one or more of these criteria. All Not Acceptable publications have been assigned one or more keywords categorizing the reasons for rejection** (Table 1. Literature Rejection Categories in Standard Operating Procedure #4: Wildlife TRV Literature Review, Data Extraction and Coding).

EcoReference Number: 44284 / In Process file#: 13404

Singh, S. P. and Nayyar, V. K. 1991. Effect of cadmium on the growth and cadmium and zinc contents of wheat on a Typic Ustipsamment. J.Indian Soc.Soil Sci. 39[1], 204-205

EcoReference Number: 45588 / In Process file#: 12256

Singh, S. P. and Nayyar, V. K. 1994. Accumulation Characteristics of Cadmium in Selected Forage Species. J.Indian Soc.Soil Sci. 42[1], 96-100

EcoReference Number: 46698 / In Process file#: 4751

Singh, V. P. 1988. Toxic Metals in Soil-Plant Systems with Special Reference to Cadmium. Int.J.Ecol.Environ.Sci. 14[2/3], 185-197

EcoReference Number: 44430 / In Process file#: 12533

Smilde, K. W., Van, Luit B., and Van, Driel W. 1992. The extraction by soil and absorption by plants of applied zinc and cadmium. Plant Soil 143[2], 233-238

EcoReference Number: 40402 / In Process file#: 4364

Spurgeon, D. J., Hopkin, S. P., and Jones, D. T. 1994. Effects Of Cadmium, Copper, Lead And Zinc On Growth, Reproduction And Survival Of The Earthworm Eisenia Fetida (Savigny): Assessing The Environmental Impact Of Point-Source Metal Contamination In Terrestrial Ecosystems. Environ.Pollut. 84[2], 123-130

EcoReference Number: 40143 / In Process file#: 6822

Spurgeon, D. S. and Hopkin, S. P. 1995. Extrapolation of the Laboratory-Based OECD Earthworm Toxicity Test to Metal Contaminated Field Sites. Ecotoxicology 4[3], 190-205

EcoReference Number: 54570 / In Process file#: 15234

Street, J. J., Sabey, B. R., and Lindsay, W. L. 1978. Influence of pH, Phosphorus, Cadmium, Sewage Sludge, and Incubation Time on the Solubility and Plant Uptake of Cadmium. J. Environ. Qual. 7[2], 286-290

EcoReference Number: 56455 / Takijima, Y., Katsumi, F., and Koizumi, S. 1973. Cadmium Contamination of Soils and Rice Plants Caused by Zinc Mining. III. Effects of Water Management and

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Applied Organic Manures on the Control of Cd Uptake by Plants. Soil Sci.Plant Nutr. 19[3], 183-193

EcoReference Number: 44330 / In Process file#: 9645

Taylor, R. W. 1974. Presence and Influence of Certain Heavy Metals on the Yield and Utilization of Medicago sativa L. M.S.Thesis, Univ.of Connecticut, Storrs, CN , 113

EcoReference Number: 46496 / In Process file#: 2790

Taylor, R. W. and D. W. Allinson. 1981. Influence of Lead, Cadmium, and Nickel on the Growth of Medicago sativa (L.). Plant Soil 60, 223-236

EcoReference Number: 44425 / In Process file#: 13227

Thakur, N. P. and Kansal, B. D. 1992. Effect of cadmium application to soils on dry matter yield and Cd concentration in maize fodder. Indian J.Ecol. 19[1], 15-19

EcoReference Number: 44528 / In Process file#: 7546

Traynor, M. F. and Knezek, B. D. 1973. Effects of Nickel and Cadmium Contaminated Soils on Nutrient Composition of Corn Plants. Proc Annual Conf.on Trace Substances in the Environment 7, 82-87

EcoReference Number: 40550 / In Process file#: 7889

Van Gestel, C. A. M. and Van Dis, W. A. 1988. The Influence of Soil Characteristics on the Toxicity of Four Chemicals to the Earthworm Eisenia fetida andrei (Oligochaeta). Biol.Fertil.Soils 6[3], 262-265

EcoReference Number: 40488 / In Process file#: 6826

Van Gestel, C. A. M., Dirven-Breemen, E. M., Sparenburg, P. M., and Baerselman, R. 1991. Influence of Cadmium, Copper and Pentachlorophenol on Growth and Sexual Development of Eisenia andrei (Oligochaeta, Annelida). Biol.Fertil.Soils 12, 117-121

EcoReference Number: 45348 / In Process file#: 12874

Van Gestel, C. A. M., Dirven-Van Breemen, E. M., Baerselman, R., Emans, H. J. B., Janssen, J. A. M., Postuma, R., and Van Vliet, P. J. M. 1992. Comparison of Sublethal and Lethal Criteria for Nine Different Chemicals in Standardized Toxicity Tests Using the Earthworm Eisenia andrei. Ecotoxicol.Environ.Saf. 23[2], 206-220

Cadmium Publications Identified as Acceptable for Plants and Invertebrates

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EcoReference Number: 40476 / In Process file#: 6828

Van Gestel, C. A. M., Dirven-Breemen, E. M., and Baerselman, R. 1993. Accumulation and Elimination of Cadmium, Chromium and Zinc and Effects on Growth and Reproduction in *Eisenia andrei* (Oligochaeta, Annelida). *Sci Total Environ Part 1*, 585-597

EcoReference Number: 40160 / In Process file#: 19

Van Gestel, C. A. M. and Van Diepen, A. M. F. 1997. The Influence Of Soil Moisture Content On The Bioavailability And Toxicity Of Cadmium For *Folsomia candida* Willem (Collembola: Isotomidae). *Ecotoxicol. Environ. Saf.* 36[2], 123-132

EcoReference Number: 40490 / In Process file#: 10987

Van Gestel, C. A. M. and Hensbergen, P. J. 1997. Interaction of Cd and Zn toxicity for *Folsomia candida* willem (Collembola: Isotomidae) in relation to bioavailability in soil. *Environmental Toxicology and Chemistry* 16[6], 1177-1186

EcoReference Number: 46546 / In Process file#: 14604

Vonk, J. W., Matla, Y. A., Van Gestel, C. A. M., Koolhaas-Van Hekezen, J., Gerritsen, A. A. M., and Henzen, L. 1996. The Influence of Soil Characteristics on the Toxicity of Cadmium for *Folsomia candida*, *Eisenia fetida* and Glutamate Mineralization. MEP-R96-144, Netherlands Organization for Applied Scientific Research, Delft, Netherlands

EcoReference Number: 44314 / In Process file#: 12985

Voros, I., Biro, B., Takacs, T., Koves-Pechy, K., and Bujtas, K. 1998. Effect of arbuscular mycorrhizal fungi on heavy metal toxicity to *Trifolium pratense* in soils contaminated with Cd, Zn and Ni salts. *Agrokem. Talajtan* 47[1-4], 277-288

EcoReference Number: 57312 / Walker, W. M., Miller, J. E., and Hassett, J. J. 1977. Effect of Lead and Cadmium upon the Boron, Copper, Manganese, and Zinc Concentration of Young Corn Plants. *Comm. Soil Sci. Plant Anal.* 8[1], 57-66

EcoReference Number: 45594 / In Process file#: 15023

Wallace, A., Romney, E. M., Alexander, G. V., Soufi, S. M., and Patel, P. M. 1977. Some Interactions in Plants Among Cadmium, Other Heavy Metals and Chelating Agents. *Agron. J.* 69, 18-20

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EcoReference Number: 44347 / In Process file#: 8485

Wohlgemuth, D., Kratz, W., and Weigmann, G. 1990. The Influence of Soil Characteristics on the Toxicity of an Environmental Chemical (Cadmium) on the Newly Developed Mono-Species Test with the Springtail *Folsomia candida* (Willem). In: J.Barcelo (Ed.), Environmental Contamination 4th Intl.Conf., Barcelona, CEP Press, Edinburgh , 260-262

EcoReference Number: 40566 / In Process file#: 6719

Zaman, M. S. and Zereen, F. 1998. Growth Responses of Radish Plants to Soil Cadmium and Lead Contamination. Bull Environ Contam Toxicol 61[1], 44-50

EcoReference Number: 44485 / In Process file#: 13139

Zheng, Chunrong and Chen, Huaiman. 1996. Interaction of Pb and Cd in soil-water-plant system and its mechanism. I. Pb-Cd interaction in red soil-plant system. Pedosphere 6[1], 63-72