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Rev	(NRCC) National Research Council of Canada. 1979. Effects of Cadmium in the Canadian Environment. NRCC No.16743, Associate Committee on Scientific Criteria for Environmental Quality, National Research Council of Canada, Ottawa , 148
Media	Abdel-Lateif, H. M., Donker, M. H., and Van Straalen, N. M. 1998. Interaction between temperature and cadmium toxicity in the isopod Porcellio scaber. Functional Ecology 12[4], 521-527
Mix	Abdul Rida, A. M. 1996. <Translated> Concentrations and growth of earthworms and plants in soils contaminated by cadmium, copper, iron, lead and zinc: interactions soil-earthworm. Concentrations et crossance de lombriciens et de plantes dans de sols contamines ou non par cd, cu. Soil Biol Biochem 28[8], 1029-1035
Mix	Abdul Rida, A. M. M. 1996. <Translated> Concentrations and growth of earthworms and plants in soils contaminated by cadmium, copper, iron, lead and zinc: interactions plant-soil-earthworm. Concentrations et croissance de lombriciens et de plantes dans des sols contamines ou non pa. Soil Biol Biochem 28[8], 1037-1044
OM, pH	Achazi, Rudolf K., Dueker, Christian, Henneken, Michael, and Rothe, B. 1995. The effect of anthropogenic pollutants on terrestrial invertebrates. Part. 2. Influence of benzo(a)pyrene (BaP), fluoranthene (Fla), and cadmium on the life cycle parameters of Enchytraeus crypticus in laboratory test systems. Verh.Ges.Oekol.(POL) 24, 535-540
Mix	Adeniyi, A. A. 1996. Determination of cadmium, copper, iron, lead, manganese, and zinc in water leaf (talinum triangulare) in dumpsites. Environment International 22[2], 259-262
No Dur	Aery, N. C. and Sakar, S. 1991. Studies on the Effect of Heavy Metal Stress on Growth Parameters of Soybean. J Environ Biol 12[1], 15-24
pH	Aggarwal, M., Luthra, Y. P., and Arora, S. K. 1995. The Effect of Cd 2+ on Lipid Components of Sunflower (Helianthus annuus I.) Seeds. Plant Foods Hum.Nutr. 47[2], 149-155
OM, pH	Ahrend, R., Kahle, H., and Breckle, S. W. 1989. Effect of Cadmium on Transpiration of Young Beech Trees (Fagus silvatica L.). In: J.B.Bucher and I.Bucher-Wallin (Eds.), Proc.14th Int.Meeting for Specialists in Air Pollution Effects on Forest Ecosystems, Oct.2-8, 1988, Interlaken, Switzerland , 381-383

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Media	Al Attar, A. F., Martin, M. H., and Nickless, G. 1988. Uptake and Toxicity of Cadmium, Mercury and Thallium to Lolium perenne Seedlings. Chemosphere 17[6], 1219-1225
Media	Al Helal, A. A. 1995. Effect of Cadmium and Mercury on Seed Germination and Early Seedling Growth of Rice and Alfalfa. J Univ Kuwait Sci 22[1], 76-82
Mix	Alberici, T. M., Sopper, W. E., Storm, G. L., and Yahner, R. H. 1989. Trace Metals in Soil Vegetation and Voles from Mine Land Treated with Sewage Sludge. J Environ Qual 18, 115-120
No Dose	Allinson, D. W. and Dzialo, C. 1981. the Influence of Lead, Cadmium and Nickel on the Growth of Ryegrass and Oats. Plant Soil 62, 81-89
Mix	Alloway, B. J., Jackson, A. P., and Morgan, H. 1990. The Accumulation of Cadmium by Vegetables Grown on Soils Contaminated from a Variety of Sources. Sci.Total Environ. 91, 223-236
Media	Allus, M. A., Brereton, R. G., and Nickless, G. 1988. Chemometric studies of the effect of toxic metals on plants: the use of response surface methodology to investigate the influence of tl, cd and ag on the growth of cabbage seedlings. Environmental Pollution.Series A: Ecological And Biological. 52[3], 169-181
No ERE	Andersson, A. and Nilsson, K. O. 1974. Influence of Lime and Soil pH on Cadmium Availability to Plants. Ambio 3, 198-200
No Control	Andersson, A. and Pettersson, O. 1981. Cadmium in Swedish Winter Wheat. Regional Differences and Their Origin. Swed.J.Agric.Res. 11, 49-55
Nut Def	Andersson, A. and Hahlin, M. 1981. Cadmium Effect from Phosphorus Fertilization in Field Experiments. Swed.J.Agric.Res. 11, 3-10
No Dur	Andersson, A. 1992. Cadmium in swedish soils and wheat production. J.Trace Elem.Exp.Med. 5[2], 76
Mix	Andreae, H. Verteilung Von Schwermetallen In Einem Forstlich Genutzten Wassereinzugsgebiet Unter Dem Einfluss Saurer Deposition Am Beispiel Der Soesemulde (Westharz). (Distribution Of Heavy Metals In A Wood Culture Water Catchment Area Under The Influence Of Acid De. Govt-Reports-Announcements-&-Index-(GRA&I),-Issue-21,-1995

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No Control	Andrewes, P., Town, R. M., Hedley, M. J., and Loganathan, P. 1996. Measurement of Plant-Available Cadmium in New Zealand Soils. Aust.J.Soil Res. 34[3], 441-452
No Dur	Anke, M., Groppel, B., Gruen, M., Kronemann, H., and Momcilovic, Berislav. 1991. Relations between the cadmium content of soil, plants, animals and humans. Trace Elem.Man Anim.7: Monogr., Proc., Round Tables Discuss.Int.Symp., 7th, P26/10-26/11
Media	Arduini, Iduna, Godbold, Douglas L., and Onnis, Antonino. 1994. Cadmium and copper change root growth and morphology of Pinus pinea and Pinus pinaster seedlings. Physiol.Plant. 92[4], 675-680
No Dur	Ash, C. P. J. and Lee, D. L. 1980. Lead, cadmium, copper and iron in earthworms from roadside sites 39264. Environ.Pollut., Ser.A: Ecol.Biol 22[1], 59-67
Media	Ash, C. P. J. and Lee, D. J. 1980. Lead, Cadmium, Copper and Iron in Earthworms from Road Sites 39265. Environ Pollut 22A[1], 59-67
No Dose	Ausmus, B. 1972. Study of Lead, Copper, Zinc and Cadmium Contamination of Food Chains of Man. Epa R3-73-034, U.S.Epa, Durham, Nc , 117-223018
FL	Avramenko, P. M., Sheveleva, M. A., and Lukin, S. V. 1998. Characteristics of lead, zinc, and cadmium accumulation in peas. Agrokhim.Vestn. [2], 16-17
Rev	Babich, H. and Stotzky, G. 1978. Effects of Cadmium on the Biota: Influence of Environmental Factors 4846. Adv.Appl.Microbiol. 24, 55-117
Media	Babich, H. and Stotzky, G. 1982. Nickel Toxicity to Fungi: Influence of Environmental Factors. Ecotoxicol Environ Saf 6[6], 577-589
Species	Babich, H. and Stotzky, G. 1982. Influence of Chloride Ions on the Toxicity of Cadmium to Fungi. Zbl.Bakt.Hyg., I.Abt.Orig.C 3, 421-426
Media	Babich, H. 1986. Cadmium-Nickel Toxicity Interactions Towards a Bacterium, Filamentous Fungi, and a Cultured Mammalian Cell Line. Bull.Environ.Contam.Toxicol 37[4], 550

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Media	Baker, A. J. M. 1984. Environmentally-Induced Cadmium Tolerance in the Grass Holcus lanatus L. Chemosphere 13, 585-589
OM	Baker, A. J. M., Grant, C. J., Martin, M. H., Shaw, S. C., and Whitebrook, J. 1986. Induction and Loss of Cadmium Tolerance in Holcus lanatus L. and Other Grasses. New Phytol 102, 575-587
No Dose	Balik, J., Tlustos, P., Szakova, J., Pavlikova, D., Balikova, M., and Blahnik, R. 1998. Variations of cadmium content in plants after sewage sludge application [Czech]. Rostlinna Vyroba 44[10], 449-456
OM, pH	Balsberg, A. M. 1982. Seasonal Changes in Concentration and Distribution of Supplied Cadmium in a Filipendula ulmaria Meadow Ecosystem. Oikos 38[1], 91-98
OM	Balsberg, A. M. 1982. Plant Biomass, Primary Production and Litter Disappearance in a Filipendula ulmaria Meadow Ecosystem, and the Effects and Cadmium. Oikos 38, 72-90
Media	Barcelo, J., Poschenrieder, C., Andreu, I., and Gunse, B. 1986. Cadmium-Induced Decrease of Water Stress Resistance in Bush Bean Plants (Phaseolus vulgaris L. cv Contender). I. Effects of Cd on Water Potential, Relative Water Content and Cell Wall Elasticity. J.Plant Physiol. 125, 17-25
Media	Barcelo, J., Cabot, C., and Poschenrieder, C. 1986. Cadmium-Induced Decrease of Water Stress Resistance in Bush Bean Plants (Phaseolus vulgaris L. cv Contender). II. Effects of Cd on Endogenous Abscisic Acid Levels. J.Plant Physiol. 125, 27-34
Media	Barcelo, J., Vazquez, M. D., and Poschenrieder, C. 1988. Structural and Ultrastructural Disorders in Cadmium-Treated Bush Bean Plants (Phaseolus vulgaris L.). New Phytol 108, 37-49
Media	Barcelo, J., Vazquez, M. D., and Poschenrieder, C. 1988. Cadmium-Induced Structural and Ultrastructural Changes in the Vascular System of Bush Bean Stems. Bot Acta 101, 254-261
No Control	Barman, S. C. and Lal, M. M. 1994. Accumulation of heavy metals (Zn, Cu, Cd and Pb) in soil and cultivated vegetables and weeds grown in industrially polluted fields. Journal Of Environmental Biology , 107-115
Media	Bartolf, M., Brennan, E., and Price, C. A. 1980. Partial Characterization of a Cadmium-

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	Binding Protein from the Roots of Cadmium-Treated Tomato. Plant Physiol. 66, 438-441
No Dur	Bartosova, M., Pavel, J., and Koch, M. 1995. Relations between heavy metal levels in soil, detritophagous and phytophagous invertebrates. Toxicol.Environ.Chem. 52[1-4], 13-23
Mix	Basta, N. T. and Sloan, J. J. 1999. Bioavailability of heavy metals in strongly acidic soils treated with exceptional quality biosolids. Journal of Environmental Quality 28[2], 633-638
No Tox	Bauer-Hilty, A., Dallinger, R., and Berger, B. 1989. Isolation And Partial Characterization Of A Cadmium-Binding Protein From Lumbriculus variegatus (Oligochaeta, Annelida). Comp Biochem Physiol C Comp Pharmacol Toxicol 94[2], 373-380
Media	Bazzaz, F. A., Carlson, R. W., and Rolfe, G. L. 1974. The Effect of Heavy Metals on Plants: Part 1. Inhibition of Gas Exchange in Sunflower by Pb, Cd, Ni, and Ti. Environ Pollut 7, 241-246
No Dose	Bell, M. J., McLaughlin, M. J., Wright, G. C., and Cruickshank, A. 1997. Inter- and intra-specific variation in accumulation of cadmium by peanut, soybean, and navy bean. Australian Journal of Agricultural Research 48[8], 1151-1160
Media	Berger, B. and Dallinger, R. 1989. Accumulation of Cadmium and Copper by the Terrestrial Snail Arianta arbustorum L: Kinetics and Budgets. Oceanologia 79, 60-65
Species	Berger, B., Dallinger, R., Felder, E., and Moser, J. 1993. Chpt. 15 Budgeting the Flow on Cadmium and Zinc Through the Terrestrial Gastropod, Helix pomatia, L. In: Ecotoxicology of Metals in Invertebrates, Proc.1st SETAC-Europe Conf, Apr.7-10, 1991, Sheffield, UK , 291-313
Species	Berger, B., Dallinger, R., Gruber, A., and Moser, J. 1994. Uptake, Assimilation, and Ligand Binding of Cadmium and Zinc in Helix pomatia After Combined Exposure to Both Metals. In: M.H.Donker, H.Eijsackers, and F.Heimbach (Eds.), Ecotoxicology of Soil Organisms, Chapter 25, SETAC Special Publ.Ser., Lewis Publishers, Boca Raton, FL , 347-354
Species	Berggren, D. 1992. Speciation and mobilization of aluminium and cadmium in podzols and cambisols of S. Sweden. Water Air Soil Pollut 62[1/2], 125-156

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Media	Berry, W. L. 1975. Response of Lettuce to Acute Cadmium Toxicity. In: Int.Conf.on Heavy Metals in the Environment, Abstracts-Resumes Programme, Toronto, Canada , C-242
Media	Berry, W. L. 1978. Comparative Toxicity of VO3, CrO2-4, Ni2+, Cu2+, Zn2+, and Cd2+ to Lettuce Seedlings. In: D.C.Adriano and I.L.Brisbin,Jr.(Eds.), Environmental Cemistry and Cycling Processes, Proc.Symp.Held at Augusta, Georgia, April 18-May 1, 1976, Tech.Info.Center, U.S.Dep of Energy (U.S.NTIS CONF-760429) , 582-589
Media	Bersenyi, A., Fekete, S., Hullar, I., Kadar, I., Szilagyi, M., Glavits, R., Kulcsar, M., Mezes, M., and Zoldag, L. 1999. Study of the Soil-Plant (Carrot)-Animal Cycle of Nutritive and Hazardous Minerals in a Rabbit Model. Acta Vet.Hung. 47[2], 181-190
FL	Bertels, C., Ruether, P., Kahle, H., and Breckle, S. W. 1989. Root System Growth of Beech Seedlings in Cadmium and Cadmium-Lead Contaminated Soils (Die Entwicklung des Wurzelsystems von Buchenkeimlingen bei Cadmium- und Kombinierter Cadmium-/Bleibelastung). Verh.Ges.Oekol. 18, 367-371
Mix	Bewley, R. J. F. and Stotzky, G. 1983. Effects of Cadmium and Simulated Rain on Ammonification and Nitrification in Soil 39735. Arch.Environ.Contam.Toxicol. 12[3], 285-291
No ERE	Beyer, W. N., Chaney, R. L., and Mulhern, B. M. 1982. Heavy metal concentrations in earthworms from soil amended with sewage sludge. J.Environ.Qual. 11[3], 381-385
No Data	Bierkens, J., Klein, G., Corbisier, P., Van den Heuvel, R., Verschaeve, L., Weltens, R., and Schoetera, G. 1998. Comparative Sensitivity of 20 Bioassays for Soil Quality. Chemosphere 37[14-15], 2935-2947
OM	Bingham, F. T., Page, A. L., Mahler, R. J., and Ganje, T. J. 1975. Yield and Cadmium Accumulation of Plants Gorwn on a Soil Treated with Cadmium-Enriched Sewage Sludge. J Environ Qual 4[2], 207-211
Media	Bingham, F. T., Page, A. L., Mahler, R. J., and Ganje, T. J. 1975. Growth and Cadmium Accumulation of Plants Grown on a Soil with a Cadmium-Enriched Sewage Sludge 39806. J Environ Qual 4[2], 207-211
OM	Bingham, F. T., Page, A. L., Mahler, R. J., and Ganje, T. J. 1975. Growth and Cadmium Accumulation of Plants Grown on a Soil Treated with a Cadmium-Enriched Sewage Sludge

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	39805. J Environ Qual 4[2], 207-211
Media	Bingham, F. T. and Page, A. L. 1975. Cadmium Accumulation by Economic Crops. In: Int.Conf.on Heavy Metals in the Environment, Symp.Proc., Inst.for Environmental Studies, University of Toronto, Ont., Canada 2[1], 433-441
No Control	Bingham, F. T., Page, A. L., Mahler, R. J., and Ganje, T. J. 1976. Cadmium Availability to Rice in Sludge-Amended Soil Under `Flood' and `Nonflood' Culture. Soil Sci.Soc.Am.J. 40, 715-719
Mix	Bingham, F. T., Page, A. L., and Strong, J. E. 1980. Yield and Cadmium Content of Rice Grain in Relation to Addition Rates of Cadmium, Copper, Nickel, and Zinc with Sewage Sludge and Liming. Soil Sci. 130[1], 32-38
Media	Bittell, J., Koeppe, D. E., and Miller, R. J. 1974. Sorption of Heavy Metals Cations by corn Mitochondria and the Effects on Electron and Energy Transfer Reactions. Physiol Plant 30, 226-230
Mix	Blair, C. W., Scanlon, P. F., and Hiller, A. L. 1978. Lead, Cadmium, Nickel, and Zinc Levels in Earthworms and Mammals Recovered near Highways of Different Traffic Volumes. Va.J.Sci. 29[2], 57 (ABS)
Mix	Boekhold, Alexandra E. and Van, Der Zee Sjoerd. 1994. Field scale variability of cadmium and zinc in soil and barley. Environmental Monitoring and Assessment 29[1], 1-15
Mix	Boisson, J., Ruttens, A., and Vangronsveld, J. 1999. Evaluation of Hydroxyapatite as a Metal Immobilizing Soil Additive for the Remediation of Polluted Soils. Part I. Influence of Hydroxyapatite on Metal Exchangeability in Soil, Plant Growth and Plant Metal Accumulation. Environ Pollut 104[2], 225-233
No Dur	Boon, D. Y. and Soltanpour, P. N. 1992. Lead, cadmium and zinc contamination of aspen garden soils and vegetation. J Environ Qual 21[1], 82-86
No Dur	Boruvka, L., Kozak, J., and Kristoufkova, S. 1997. Distribution of cadmium, lead, and zinc in plants grown on heavily polluted soils. Rostl.Vyroba 43[6], 249-256
OM	Bramley, R. G. V., Barrow, N. J., and Barrow, N. J Ed. 1993. Differences in the cadmium content of some common wa pasture plants supplied with a range of levels of cadmium.

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	<Book> developments in plant and soil sciences; plant nutrition from genetic engineering to field practice. Developments in Plant and Soil Sciences , 787-790
OM	Bramley, R. G. V. and Barrow, N. J. 1994. Differences in the Cadmium Content of Some Common Western Australian Pasture Plants Grown in a Soil Amended with Cadmium-Describing the Effects of Level of Cadmium Supply. Fert.Res. 39[2], 113-122
No Dose	Braunschweiler, H. 1995. Seasonal Variation In The Content Of Metals In The Earthworm Dendrobaena octaedra (Sav.) In The Finnish Forest Soils. Acta Zool.Fenn. [196], 314-317
Rev	Breckle, S. W. and Kahle, H. 1992. Effects of Toxic Heavy Metals Cadmium Lead on Growth and Mineral Nutrition of Beech (Fagus sylvatica L.). Vegetario 101[1], 43-53
Mix	Brown, S. L., Chaney, R. L., Lloyd, C. A., Angle, J. S., and Ryan, J. A. 1966. Relative Uptake of Cadmium by Garden Vegetables and Fruits Grown on Long-Term Sewage Sludge Amended Soils. Environ Sci & Technol 30[12], 3508-3511
Mix	Brown, S. L., Chaney, R. L., Angle, J. S., and Baker, A. J. M. 1994. Phytoremediation Potential of Thlaspi caerulescens and Bladder Campion for Zinc- and Cadmium-Contaminated Soil. J Environ Qual 23[6], 1151-1157
Media	Brown, S. L., Chaney, R. L., Angle, J. S., and Baker, A. J. M. 1995. Zinc and cadmium uptake by hyperaccumulator thlaspi caerulescens grown in nutrient solution. Soil Science Society Of America Journal. 59[1], 125-133
Mix	Brown, S. L., Chaney, R. L., Angle, J. S., and Baker, A. J. M. 1995. Zinc and Cadmium Uptake by Hyperaccumulator Thlaspi caerulescens and Metal Tolerant Silene vulgaris Grown on Sludge-Amended Soils. Environ.Sci.Technol. 29[6], 1581-1585
No ERE	Brown, S. L., Chaney, R. L., Angle, J. S., and Ryan, J. A. 1998. The Phytoavailability of Cadmium to Lettuce in Long-Term Biosolids-Amended Soils. J Environ Qual 27, 1071-1078
Mix	Bruce, L. J., McCracken, D. I., Foster, G. N., and Aitken, M. N. 1997. The Effects Of Cadmium And Zinc-Rich Sewage Sludge On Epigeic Collembola Populations. Pedobiologia 41[1-3], 167-172
Media	Brunner, I. and Frey, B. 2000. Detection and Localization of Aluminum and Heavy

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	Metals in Ectomycorrhizal Norway Spruce Seedlings. Environ.Pollut. 108[2], 121-128
OM, pH	Buchauer, M. J. 1973. Contamination of Soil and Vegetation near a Zinc Smelter by Zinc, Cadmium, Copper, and Lead. Environ Sci & Technol 7[2], 131-135
No Dose	Burne, S., Wheater, H. S., Butler, A. P., Johnston, P. M., Wadey, P., Shaw, G., and Bell, J. N. B. 1994. Radionuclide transport above a near-surface water table: I. An automated lysimeter facility for near-surface contaminant transport studies. Journal of Environmental Quality 23[6], 1318-1329
Media	Cabrera, D., Young, S. D., and Rowell, D. L. 1988. The Toxicity of Cadmium to Barley Plants as Affected by Complex Formation with Humic Acid. Plant Soil 105, 195-204
FL	Cao, Lijun and Yan, Jianhan. 1992. Ecological study on cadmium pollution of the soil-crop system. Shanxi Daxue Xuebao, Ziran Kexueban, V14, N4, P419-26 14[4], 419-426
FL	Cao, Lijun and Wang, Huandong. 1996. Study on Cadmium Pollution of Soil-Crop System and Its Control. Huanjing Wuran Yu Fangzhi (CHI) 18[5], 8-11
Media	Carlson, R. W., Bazzaz, F. A., and Rolfe, G. L. 1975. The Effect of Heavy Metals on Plants: Part II. Net Photosynthesis and Transpiration of Whole Corn and Sunflower Plants Treated with Pb, Cd, Ni, and Ti. Environ Research 10, 113-120
OM, pH	Carlson, R. W. and Bazzaz, F. A. 1977. Growth Reduction of American Sycamore (Plantanus occidentalis L.) Caused by Pb-Cd Interaction 40295. Environ Pollut 12[4], 243-253
No ERE	Carlson, R. W. and Bazzaz, F. A. 1977. Growth Reduction in American Sycamore (Plantanus occidentalis L.) Caused by Pb-Cd Interaction 40294. Environ Pollut 12, 243-253
No ERE	Carlson, R. W. and Rolfe, G. L. 1979. Growth of Rye Grass and Fescue as Affected by Lead-Cadmium-Fertilizer Interaction. J Environ Qual 8[3], 348-352
No Control	Carter, A. 1983. Cadmium, Copper, and Zinc in Soil Animals and Their Food in a Red Clover System. Can.J.Zool. 61, 2751-2757
OM, pH	Cast. 1976. Application of Sewage Sludge to Cropland: Appraisal of Potential Hazards of the Heavy Metals to Plants and Animals. Rep.No.64, Counc Agric Sci Technol, Ames, IA

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, 63

Media Casterline, J. L., Jr. and Barnett, N. M. 1982. Cadmium-Binding Components in Soybean Plants. Plant Physiol. 69, 1004-1007

No Control Casterline, J. L. J. and Yip, G. 1975. The Distribution and Biding of Cadmium in Oyster, Soybean, and Rat Liver and Kidney. Arch.Environ.Contam.Toxicol. 3[3], 319-329

No Dose Cataldo, D. A. and Wildung, R. E. 1978. Soil and Plant Factors Influencing the Accumulation of Heavy Metals by Plants. Environ.Health Perspect. 27, 149-159

Media Cataldo, D. A., Garland, T. R., and Wildung, R. E. 1981. Cadmium Distribution and Chemical Fate in Soybean Plants. Plant Physiol. 68, 835-839

FL Celardin, F. and Landry, J. C. 1988. Bioindicators of pollution earthworms and heavy metals in soil. ARCH SCI (GENEVA).Archives des Sciences (Geneva).41 (2).1988.225-228. 41[2], 225-228

No Dur Chan, D. Y. and Hale, B. A. 1995. Differential Accumulation and Complexation of Cadmium by Metal Tolerant and Sensitive Wheat Cultivars (Triticum aestivum). In: G.F.Westlake, J.L.Parrott and A.J.Niimi (Eds.), Proc.21st Annual Aquatic Toxicity Workshop, Oct.3-5, 1994, Sarnia, Ontario; Can.Tech.Rep.Fish.Aquat.Sci.No.2050 , 138

Abstract Chaney, R. and Ryan, J. 1995. Risk Based Standards For Arsenic, Lead And Cadmium In Urban Soils. Summary Of Information And Methods Developed To Estimate Standards For Cd, Pb And As In Urban Soils
6615. Govt-Reports-Announcements-&-Index-(GRA&I) [19]

Rev Chaney, R. L. and Hornick, S. B. Accumulation and Effects of Cadmium on Crops
50612. In: Proc 1st Int Cadmium Conf Metals Bull, London , 125-140

Mix Chaney, R. L., White, M. C., and Simon, P. W. 1975. Plant Uptake of Heavy Metals from Sewage Sludge Applied to Land. In: Proc 2nd Natl conf Munic Sludge Manage, Information Transfer, Rockville, MD , 167-178

No Control Chaney, R. L., Li, Y. M., Schneiter, A. A., Green, C. E., Miller, J. F., and Hopkins, D. G. 1993. Progress in Developing Technologies to Produce Low Cd Concentrations Concentration Sunflower Kernels. In: Proc 15th Sunflower Research Workshop, Jan.14-15, 1993, Natl.Sunflower Assoc., Bismark, ND , 80-92

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No Dose	Chaney, R. L., Green, C. E., Filcheva, E., and Brown, S. L. 1994. Effect of Iron, Manganese, and Zinc Enriched Boisolids Compost on Uptake of Cd by Lettuce from Cadmium-Contaminated Soils. In: R.H.Dowdy, et al.(Eds.), Sewage Sludge: Land Utilization and the Environment, ASA-CSSA-SSSA, Madison, WI , 205-207
Media	Chaney, W. R. and Strickland, R. C. 1984. Relative toxicity of heavy metals to red pine pinus-resinosa pollen germination and germ tube elongation. J Environ Qual 13[3], 391-394
Mix	Chang, A. C., Hyun, H. N., and Page, A. L. 1997. Cadmium Uptake for Swiss Chard Grown on Composted Sewage Sludge Treated Field Plots: Plateau or Time Bomb? J Environ Qual 26, 11-19
Media	Chardonnens, Agnes N., Ten Bookum, Wilma M., Kuijper, Lothar D. J., Verkleij, Jos A. C., and Ernst, Wilfried H. O. 1998. Distribution of cadmium in leaves of cadmium tolerant and sensitive ecotypes of Silene vulgaris. Physiol.Plant. 104[1], 75-80
OM	Chaudri, A. M., McGrath, S. P., and Giller, K. E. 1992. Survival of Indigenous Population of Rhizobium leguminosarum Biovar trifolii in Soil Spiked with Cd, Zn, Cu and Ni Salts. Soil Biol Biochem 24[7], 625-632
No Dur	Chaudri, A. M., Zhao, F. J., McGrath, S. P., and Crosland, A. R. 1995. The cadmium content of British wheat grain. Journal of Environmental Quality 24, 850-855
Media	Chen, Huaiman, Lin, Qi, and Zheng, Chunrong. 1998. Interaction of Pb and Cd in soil-water-plant system and its mechanism: II. Pb-Cd interaction in rhizosphere. Pedosphere 8[3], 237-244
Mix	Chen, Yichang. 1994. Interactions between sulfur nutrition and cadmium toxicity in barley seedlings (Hordeum vulgare L. cv. UC 476). Diss.Abstr.Int.B , 132
No Dose	Chen, Z. S. 1991. Cadmium and Lead Contamination of Soils Near Plastic Stabilizing Materials Producing Plants in Northern Taiwan. Int.Conf.on Metals in Soils, Waters, Plants and Animals, Orlando, FL, April 30-May 3, 1990, Water Air Soil Pollut. 57/58, 745-754
Media	Cheng-nong, Y., Yi, L., Tian-zhi, W., Zhi-qun, T., Song-sheng, Q., and Ping, S. 1999. Thermochemical Studies of the Toxic Actions of Heavy Metal Ions on Rhizopus nigricans. Chemosphere 38[4], 891-898

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No Dur	Chernykh, N. A. 1991. Alteration of the concentrations of certain elements in plants by heavy metals in the soil. Sov Soil Sci (Engl Transl Pochvovedenie).Soviet Soil Science (English Translation of Pochvovedenie) 23[6], 45-53
Media	Cheung, Y. H., Wong, M. H., and Tam, N. F. Y. 1989. Root and Shoot Elongation as an Assessment of Heavy Metal Toxicity and `Zn Equivalent Value' of Edible Crops. Hydrobiologia 188/189, 377-383
No Dose	Chizzola, R. 1997. Comparative Cadmium Uptake and Mineral Composition of Cadmium Treated Papaver somniferum, Triticum durum and Phaseolus vulgaris. J.Appl.Bot./Angew.Bot. 71[5-6], 147-153
No ERE	Chlopecka, A. and Adriano, D. C. 1997. Influence of Zeolite, Apatite and Fe-oxide on Cd and Pb Uptake by Crops. Sci.Total Environ.207(2-3):195-206 207[2-3], 195-206
No ERE	Chlopecka, Anna. 1993. Forms of Trace Metals from Inorganic Sources in Soils and Amounts Found in Spring Barley. Water Air and Soil Pollution 69[1-2], 127-134
No Dose	Choudhary, M., Bailey, L. D., and Grant, C. A. 1994. Effect of zinc on cadmium concentration in the tissue of durum wheat. Can.J.Plant Sci. 74[3], 549-552
FL	Chrenekova, Eva and Lahucky, Ladislav. 1991. Root cadmium intake in different growth phases and its response to selenium. Pol'nohospodarstvo 37[6], 520-528
FL	Chrenekova, Eva, Lahucky, Ladislav, and Vollmannova, Alena. 1991. Root absorption of lead and cadmium by spring barley. Pol'nohospodarstvo 37[2], 137-144
Rev	Christensen, T. H. and Tjell, J. C. 1983. Interpretation of Experimental Results on Cadmium Crop Uptake from Sewage Sludge Amended Soil. In: P.L'Hermite and H.Ott (Eds.), Proc.and Use of Sewage Sludge, Dordrecht, Reidel , 358-369
Species	Christensen TH. 1984. Cadmium Soil Absorption at Low Concentrations: I. Effect of Time, Cadmium Load, pH and Calcium. Water Air Soil Pollut 21: 105-114.
Media	Chugh, L. K. and Sawhney, S. K. 1996. Effect of Cadmium on Germination, Amylases and Rate of Respiration of Germinating Pea Seeds. Environ Pollut 92[1], 1-5
Mix	Chukwuma, Chrysanthus. 1993. Comparison of the accumulation of cadmium, lead and zinc in cultivated and wild plant species in the derelict Enyigba lead-zinc mine.

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	Toxicol.Environ.Chem. 38[3-4], 167-173
No Dur	Chukwuma, Chrysanthus, Sr. 1994. Evaluating Baseline Data for Lead and Cadmium in Rice, Yam, Cassava and Guinea Grass from Cultivated Soils in Nigeria (Erratum to document cited in CA122:74215). Toxicol.Environ.Chem. 46[1-2], 135
No Dur	Chukwuma, Chrysanthus, Sr. 1994. Evaluating baseline data for lead (Pb) and cadmium (Cd) in rice, yam, cassava and guinea grass from cultivated soils in Nigeria. Toxicol.Environ.Chem. 45[1-2], 45-56
Mix	Chumbley, C. G. and Unwin, R. J. 1982. Cadmium and Lead Content of Vegetable Crops Grown on Land with a History of Sewage Sludge Application. Environ.Pollut. 4B, 231-237
Mix	Cieslinski, G., Mercik, S., and Neilsen, G. 1994. Effect of Soil Application of Cadmium Contaminated Lime on Soil Cadmium Distribution and Cadmium Concentration in Strawberry Leaves and Fruit. J.Plant Nutr. 17[7], 1095-1110
No ERE	Cieslinski, G., Neilsen, G. H., and Hogue, E. J. 1995. Effect of pH and Soil Cd Concentration on Cd Uptake and Accumulation by Apple Trees (Malus domestica Borkh.) Cv. Fuji. Acta Hortic. 383, 47-56
No Dose	Cieslinski, G., Van, Rees K. C. J., Huang, P. M., Kozak, L. M., Rostad, H. P. W., and Knott, D. R. 1996. Cadmium uptake and bioaccumulation in selected cultivars of durum wheat and flax as affected by soil type. Plant Soil 182[1], 115-124
No Toxicant	Cieslinski, G., Van Rees, K. C. J., Szmigielska, A. M., Krishnamurti, G. S. R., and Huang, P. M. 1998. Low-molecular-weight organic acids in rhizosphere soils of durum wheat and their effect on cadmium bioaccumulation. Plant Soil, V203, N1, P109-117 203[1], 109-117
Media	Cikutovic, M. A., Fitzpatrick, L. C., Venables, B. J., and Goven, A. J. 1993. Sperm Count in Earthworms (Lumbricus terrestris) as a Biomarker for Environmental Toxicology: Effects of Cadmium and Chlordane. Environ.Pollut. 81[2], 123-125
No ERE	Cikutovic, M. A., Fitzpatrick, L. C., Goven, A. J., Venables, B. J., Giggleman, M. A., and Cooper, E. L. 1999. Wound Healing in Earthworms Lumbricus terrestris: A Cellular-Based Biomarker for Assessing Sublethal Chemical Toxicity. Bull Environ Contam Toxicol 62[4], 508-514

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FL	Clain, E. and Deysson, G. 1976. Cytotoxicite du Cadmium: Etude sur les Meristernes Radiculaires d'Allium sativum L. C.R.Soc.Biol.(Paris) 170, 1151-1155
Media	Clark, R. B., Pier, P. A., Knudsen, D., and Maranville, J. W. 1981. Effect of Trace Element Deficiencies and Excesses on Mineral Nutrients in Sorghum. J.Plant Nutr. 3[1-4], 357-374
No Toxicant	Clarke, J. M., Leslie, D., and Kopytko, G. L. 1997. Inheritance of Cadmium Concentration in Five Durum Wheat Crosses. Crop Sci. 37[6], 1722-1726
Media	Collins, F. W., Cunningham, L. M., and Hutchinson, T. C. 1976. Physiological and Biochemical Aspects of Cadmium Toxicity in Soybean. Part II. Toxicity, Bioaccumulation, and Subcellular Fractionation of Cadmium in Soybean grown at Subchronic to Acute Cadmium Levels. In: D.D.Hemphill (Ed.), Trace Substances in Environmental Health, University of Missouri, Columbia 10, 145-166
Media	Colpaert, J. V. and Van Assche, J. A. 1993. The Effects of Cadmium on Ectomycorrhizal Pinus sylvestris L. New Phytol. 123[2], 325-333
No Dur	Cooke, M., Jackson, A., Nickless, G., and Roberts, D. J. 1979. Distribution and Speciation of Cadmium in the Terrestrial snail Helix aspersa. Bull Environ Contam Toxicol 23, 445-451
Media	Costa, G. and Morel, J. L. 1994. Efficiency of H+-ATPase Activity on Cadmium Uptake by Four Cultivars of Lettuce. J.Plant Nutr. 17[4], 627-637
Media	Costa, Guy, Michaut, Jean Christophe, and Guckert, Armand. 1997. Amino acids exuded from axenic roots of lettuce and white lupin seedlings exposed to different cadmium concentrations. J.Plant Nutr. 20[7/8], 883-900
Media	Coughtrey, P. J. and Martin, M. H. 1979. Cadmium, Lead and Zinc Interactions and Tolerance in Two Populations of Holcus lanatus L. Grown in Solution Culture. Environ.Exp.Bot. 19, 285-290
Media	Crawford, L. A., Hodkinson, I. D., and Lepp, N. W. 1990. The Effects of Feeding by the Black Bean Aphid Aphis fabae Scop. (Homoptera: Aphididae) on Copper and Cadmium Accumulation in Broad Bean (Vicia faba L.). Environ.Geochem.Health 12, 245-251
FL	Croessmann, G. 1988. Cycle in the system soil-plant-animal on locations with extremely

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	high soil contaminations by cadmium and nickel caused by sewage sludge. Final report (GER). Report, UBA-FB-86-106 (German) , 101
Media	Crommentuijn, T., Doodeman, C. J. A. M., Doornekamp, A., Van der Pol, J. J. C., Bedaux, J. J. M., and Van Gestel, C. A. M. 1994. Lethal Body Concentrations And Accumulation Patterns Determine Time-Dependent Toxicity Of Cadmium In Soil Arthropods. Environ Toxicol Chem 13[11], 1781-1789
Media	Crommentuijn, T., Doodeman, C. J. A. M., Van der Pol, J. J. C., Doornekamp, A., Rademaker, M. C. J., and Van Gestel, C. A. M. 1995. Sublethal Sensitivity Index As An Ecotoxicity Parameter Measuring Energy Allocation Under Toxicant Stress: Application To Cadmium In Soil Arthropods. Ecotoxicol.Environ.Saf. 31[3], 192-200
Media	Crommentuijn, T., Connie, J. A. M., Doodeman, A. D., and van, Gestel. 1997. Life-table Study with the Springtail Folsomia candida (Willem) Exposed to Cadmium, Chlorpyrifos and Triphenyltin Hydroxide. In: N.M.Van Straalen and H.Lokke (Eds.), Ecological Risk Assessment of Contaminants in Soil, Chapman and Hall, London , 275-291
Mix	Cunha Bustamante, M. Biomonitoring Of Heavy Metals Using Higher Plants Growing At Former Mining Sites. Govt-Reports-Announcements-&-Index-(GRA&I),-Issue-01,-1995
Mix	Cunningham, J. D., Ryan, J. A., and Keeney, D. R. 1975. Phytotoxicity in and Metal Uptake from Soil Treated with Metal-Amended Sewage Sludge. J Environ Qual 4[4], 455-459
Media	Cunningham, L. M., Collings, F. W., and Hutchinson, T. C. 1975. Physiological and Biochemical Aspects of Cadmium Toxicity in Soybean I. Toxicity Symptoms and Autoradiographic Distribution of Cd in Roots, Stems and Leaves. In: Int.Conf.on Heavy Metals in the Environment, Symp.Proc., Institute for Environmental Studies, University of Toronto, Ontario, Canada 2[1], 97-120
Media	Cunningham, L. M. 1977. The Uptake and Distribution of Cadmium in Growing Soybean 11635. M.S.Thesis, Fac Food Sci, University of Toronto, Toronto, Canada , 146 p.
Media	Cunningham, L. M. 1977. Physiological and Biochemical Aspects of Cadmium in Soybean: The Effects of Induced Cd Toxicity on the Uptake and Translocation of Zn, Fe, Mg, Ca and K. Proc Annual Conf on Trace Substances in the Environment , 133-145
Media	Cutler, J. M. and Rains, D. W. 1974. Characterizatino of Cadmium Uptake by Plant

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	Tissue. Plant Physiol 54, 67-71
Media	Cyr, R. J. and Bernstei., R. L. 1984. Morphological-Changes and Depressed Phagocytic Efficiency in Dictyostelium amebas Treated with Toxic Concentrations of Cadmium. Environ Res 35[1], 66-78
Media	Czuba, M. and Ormrod, D. P. 1974. Effects of Cadmium and Zinc on Ozone-Induced Phototoxicity in Cress and Lettuce. Can J Bot 52, 645-649
OM, pH	Czuba, M. and Kraszewski, A. 1994. Long-Term Cadmium Exposure Accelerates Oxidant Injury: Significance of Bound/Free Water States During Long-Term Metal Stress. Ecotoxicol Environ Saf 29[3], 330-348
Media	Dabin, P., Marafante, E., Mousny, J. M., and Myttenaere, C. 1978. Absorption, Distribution and Binding of Cadmium and Zinc in Irrigated Rice Plants. Plant Soil 50, 329-341
Media	Dallinger, R. and Wieser, W. 1984. Patterns of Accumulation, Distribution and Liberation of Zn, Cu, Cd and Pb in Different Organs of the Land Snail Helix pomatia, L. Comp Biochem Physiol 79C, 117-124
Mix	Dallinger, R., Berger, B., and Gruber, A. 1993. Quantitative Aspects of Zinc and Cadmium Binding in Helix pomatia: Differences Between an Essential and a Nonessential Trace Element. In: R.Dallinger and P.S.Rainbow (Eds.), Ecotoxicology of Metals in Invertebrates, Chapter 16, SETAC Special Publications Series, Lewis Publishers, Boca Raton, FL , 315-332
Media	Darlington, A. B. and Rauser, W. E. 1988. Cadmium Alters the Growth of the Ectomycorrhizal Fungus Paxillus involutus; a New Growth Model Accounts for Changes in Branching. Can J Bot 66, 225229
Rev	Das, P., Samantaray, S., and Rout, G. R. 1997. Studies on Cadmium Toxicity in Plants: A Review. Environ Pollut 98[1], 29-36
Mix	Davies, B. E. and Roberts, L. J. 1975. Heavy Metals in Soils and Radish in a Mineralised Limestone Area of Wales, Great Britain. Sci.Total Environ. 4, 249-261
No Dur	Davies, B. E. 1992. Interrelationships between soil properties and the uptake of cadmium, copper, lead and zinc from contaminated soils by radish Raphanus-sativus L. Water Air

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	Soil Pollut 63[3/4], 331-342
Mix	Davis, R. D., Beckett, P. H. T., and Wollan, E. 1978. Critical Levels of Twenty Potentially Toxic Elements in Young Spring Barley. Plant Soil 49, 395-408
Media	De Knecht, J. A., Koevoets, P. L. M., Verkleij, J. A. C., and Ernst, W. H. O. 1992. Evidence Against a Role for Phytochelatins in Naturally Selected Increased Cadmium Tolerance in Silene vulgaris (Moench). New Phytol. 122, 681-688
OM, pH	De Pasquale, R., Ragusa, S., Iauk, L., Barbera, R., and Galati, E. M. 1988. Effect of Cadmium on Germination, Growth and Active Principle Contents of Achillea millefolium L. Pharmacol.Res.Commun. 20[Suppl. 5], 145-149
OM, pH	De Pasquale, R., Iauk, L., Barbera, R., Saija, A., Galati, E. M., and Ragusa, S. 1989. Effect of Cd(2+) on Germination, Growth and Active Principles of Datura metel L. Toxicol.Environ.Chem. 23[1-4], 121-127
OM, pH	De Pasquale, R., Rapisarda, A., Germano, M. P., Ragusa, S., Kirjavainen, S., and Galati, E. M. 1995. Effects of cadmium on growth and pharmacologically active constituents of the medicinal plant Coriandrum sativum L. Water Air Soil Pollut. 84[1/2], 147-157
Mix	De Pieri L.A., Buckley, W. T., and Kowalenko, C. G. 1997. Cadmium and Lead Concentrations of Commercially Grown Vegetables and of Soils in the Lower Fraser Valley of British Columbia. Can.J.Soil Sci. 77[1], 51-57
Rev	Degraeve, N. 1981. Carcinogenic, Teratogenic and Mutagenic Effects of Cadmium. Mutat Res 86, 115-135
Media	Degreave, N. 1971. Modification des Effects du Methane Sulfonated d'Ethyl au Niveau Chromosomique. I. Les Ions Metalligues. Rev Cytol Biol Veg 34, 233-244
No Control	Del Castilho P. and Chardon, W. J. 1995. Uptake of Soil Cadmium by Three Field Crops and Its Prediction by a pH-Dependent Freundlich Sorption Model. Plant Soil 171[2], 263-266
Mix	Descamps, M., Fabre, M. C., Grelle, C., and Gerard, S. 1996. Cadmium and Lead Kinetics During Experimental Contamination and Decontamination of the Centipede Lithobius forficatus L. Arch.Environ.Contam.Toxicol. 31[3], 350-353

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Media	Devkota, B. and Schmidt, G. H. 1999. Effects of Heavy Metals (Hg2+, Cd2+, Pb2+) During the Embryonic Development of Acridid Grasshoppers (Insecta, Caelifera). Arch.Environ.Contam.Toxicol. 36[4], 405-414
OM	Diab, G. S., Emara, M. D., El Sokkary, E. H., and El Kouny, H. M. 1991. Cadmium and Lead Distribution in Oil-Water System and in Oil Plants Grown in Sandy Soils Irrigated with Cd and Pb Polluted Water. Alexandria Sci.Exch. 12[3], 557-577
Media	Doelman, P., Nieboer, G., Schroote., J., and Visser, M. 1984. Antagonistic and Synergistic Toxic Effects of Pb and Cd in a Simple Foodchain - Nematodes Feeding on Bacteria or Fungi. Bull Environ Contam Toxicol 32[6], 717-723
No Dose	Dong, B., Rengel, Z., and Graham, R. D. 1995. Effects of Herbicide Chlorsulfuron on Growth and Nutrient Uptake Parameters of Wheat Genotypes Differing in Zn-Efficiency. Plant Soil 173[2], 275-282
FL	Dong, Muxin and Zhang, Hui. 1992. Effects of zinc and cadmium on growth of rice and their interaction in absorption and accumulation by plants. Zhiwu Shenglixue Tongxun 28[2], 111-113
Media	Dongsen, Xue, Harrison, Robert B., and Henry, Charles L. 1995. Effect of organic acid on Cd toxicity in tomato and bean growth. J.Environ.Sci. 7[4], 399-406
Media	Donker, M. H. and Bogert, C. G. 1991. Adaptation to Cadmium in Three Populations of the Isopod Porcellio scaber. Comp Biochem Physiol C 100[1/2], 143-146
Rev	Donkin, Steven G. 1997. Graphical determination of metal bioavailability to soil invertebrates utilizing the Langmuir sorption model. ASTM Spec.Tech.Publ., VSTP 1317, Environmental Toxicology and Risk Assessment: Modeling and Risk Assessment 6, 28-43
Mix	Dorn, C. R., Pierce, J. O., Chase, G. R., and Phillips, P. E. 1975. Environmental Contamination by Lead, Cadmium, Zinc, and Copper in a New Lead-Producing Area. Environ Res 9, 159-172
FL	Dorn, J. and Metz, R. 1996. Effects of Organic Pollutants (PAH; PCB) and Heavy Metals in Sewage Fields on Biomass Production and Heavy Metal Transfer of Rye (Wirkung von Organischen Schadstoffen (PAK; PCB) und Schwermetallen in Rieselfeldboden auf Biomasseertrag und Schwermetalltransfer bei Roggen (Secale cereale)).

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	Z.Pflanzenernahr.Bodenkd. 159[1], 87-91
No Dose	Dorn, J., Koch, C., Metz, R., and Wilke, B. M. 1997. Effect of 2,2',5,5'-Tetrachlorobiphenyl, Benzo-a-Pyren, Cadmium and Copper in an Original Sewage Field Soil and Uptake of These Substances by Rye (Wirkung von 2,2',5,5' Tetrachlorbiphenyl, Benzo-a-pyren, Cadmium und Kupfer in Einem Rieselfeldboden und Aufnahme Dieser Stoffe Durch Roggen (Secale cereale)). Z.Pflanzenernahr.Bodenkd. 160[2], 217-222
Mix	Dowdy, R. H. and Ham, G. E. 1977. Soybean Growth and Elemental Content as Influenced by Soil Amendments of Sewage Sludge and Heavy Metals: Seedling Studies. Agron.J. 69, 300-303
Rev	Doyle, J. J. 1977. Effects of Low Levels of Dietary Cadmium in Animals - A Review. J Environ Qual 6[2], 111-116
Mix	Dragland, S. 1996. Content of Cadmium and Lead in Chamomile (Chamomilla recutita L.) and Feverfew (Tanacetum parthenium L.) Grown in Different Parts of Norway (Innhold av Kadmium og bly i Kamille (Chamomilla recutita L.) og Matrem (Tanacetum parthenium L.) Dyrket pa Ulike Steder i Norge). Norsk.Landbruksforsking 10[3/4], 181-188
Media	Drewes, C. D., Vining, E. P., and Callahan, C. A. 1988. Electrophysiological Detection of Sublethal Neurotoxic Effects in Intact Earthworms. In: C.A.Edwards and E.F.Neuhauser (Eds.), Earthworms in Waste and Environmental Management, SPB Academic Publ., The Hague, Netherlands , 355-366
Mix	Dudka, S., Piotrowska, M., and Terelak, H. 1997. Transfer of cadmium, lead, and zinc from industrially contaminated soil to crop plants: a field study. Environ.Pollut. 94[2], 181-188
Mix	Dugdale, P. J. 1978. Cadmium in the Lead Smelter at Belledune: Its Association with Heavy Metals in the Ecosystem. In: Proc.1st Int.Cadmium Conf., Cadmium 77, Jan.31-Feb.2, 1977, San Francisco, CA , 53-75
Species	Dusek, L. 1995. The Effect of Cadmium on the Activity of Nitrifying Populations in Two Different Grassland Soils. Plant Soil 177[1], 43-53
FL	Dzhokhadse, T. A. 1977. Effect of Cadmium on Spontaneous Mutation in Crepis capillaris Seeds

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	1676. Tsor.Prikl.Vopr.Obsheh Mol.Genet. 48-51 (RUS)
No Dose	Eckwert, H. and Kohler, H. R. 1997. The Indicative Value of the HSP70 Stress Response as a Marker for Metal Effects in Oniscus asellus (Isopoda) Field Populations: Variability Between Populations from Metal-Polluted and Uncontaminated Sites. Appl.Soil Ecol. 6[3], 275-282
Meth	Egorov, Yu L. and Kirillov, V. F. 1996. Ecologic significance and hygienic regulation of lead and cadmium in various media (review of literature). Meditsina Truda i Promyshlennaya Ekologiya 0[10], 18-25
No Dur	Eklund, Mats. 1995. Cadmium and lead deposition around a swedish battery plant as recorded in oak tree rings. Journal of Environmental Quality 24[1], 126-131
Media	El-Kenawy, Z. A., Angle, J. S., Gewaily, E. M., El-Wafai, N. A., Van Berkum, P., Chaney, R. L., and Ibekwe, M. A. 1997. Zinc and Cadmium Effects on the Early Stages of Nodulation in White Clover. Agron.J. 89[6], 875-880
Media	El Enany, A. E. 1995. Alleviation of Cadmium Toxicity on Maize Seedlings by Calcium. Biol Plant 37[1], 93-99
Mix	Emerson, R. 1990. Phytotoxicology Assessment Survey Investigation In The Vicinity Of Clintar Groundskeeping Services, 17 Dundas St. E., Mississauga, June 2, 1988. Govt-Reports-Announcements-&-Index-(GRA&I) [21]
Mix	Emerson, R. 1991. Phytotoxicology Assessment Survey Of Metal Concentrations In Surface Soil In The Vicinity Of Burnstein Castings, Catherine Street, St. Catherines, March 1988. Govt-Reports-Announcements-&-Index-(GRA&I) [3]
Meth	Emmerling, C., Krause, K., and Schroeder, D. 1997. The Use Of Earthworms In Monitoring Soil Pollution By Heavy Metals. Zeitschrift Fuer Pflanzenernaehrung Und Bodenkunde 160[1], 33-39
No Dose	Eriksson, J. E. 1989. The Influence of pH, Soil type and Time on Adsorption and Uptake by Plants of Cd Added to the Soil. Water Air Soil Pollut 48[3/4], 317-335
No Dur	Eriksson, Jan E. and Soderstrom, Mats. 1996. Cadmium in soil and winter wheat grain in southern sweden: i. Factors influencing cd levels in soils and grain. Acta Agric.Scand.Sect.B Soil Plant Sci. 46, 240-248

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Rev	Ernst, W. H. O. 1980. Biochemical Aspects of Cadmium in Plants. In: J.O.Nriagu (Ed.), Cadmium in the Environment, Chapter 16, John Wiley, NY , 639-653
Media	Falchuk, K. H., Fawcett, D. W., and Vallee, B. L. 1975. Competitive Antagonism of Cadmium and Zinc in the Morphology and Cell Division of Euglena gracilis. J.Submicrosc.Cytol. 7, 139-152
Media	Fargasova, A. 1994. Effect of Pb, Cd, Hg, As, and Cr on Germination and Root Growth of Sinapis alba Seeds. Bull Environ Contam Toxicol 52, 452-456
Mix	Fargo, L. L. and Fleming, R. W. 1977. Effects of Chromate and Cadmium on Most Probable Number Estimates of Nitrifying Bacteria in Activated Sludge. Bull Environ Contam Toxicol 18[3], 350-354
OM	Feigin, A., Bielorai, H., Shalhevet, J., Kipnis, T., and Dag, J. 1979. The Effectiveness of Some Crops in Removing Minerals from Soils Irrigated with Sewage Effluent. Prog Water Technol 11[4/5], 151-162
No Control	Fernandes, M. L., Abreu, M. M., Calouro, F., and Vaz, M. C. 1999. Effect of Liming and Cadmium Application in an Acid Soil on Cadmium Availability to Sudangrass. Commun.Soil Sci.Plant Anal. 30[7/8], 1051-1062
Mix	Ferrari, B., Radetski, C. M., Veber, A. M., and Ferard, J. F. 1999. Ecotoxicological Assessment of Solid Wastes: A Combined Liquid- and Solid-Phase Testing Approach Using a Battery of Bioassays and Biomarkers. Environ Toxicol Chem 18[6], 1195-1202
Media	Fett, Janette P., Cambraia, Jose, Oliva, Marco A., and Jordao, Claudio P. 1994. Absorption and distribution of cadmium in water hyacinth plants. J.Plant Nutr. 17[7], 1219-1230
FL	Fiedler, H. J., Heinze, M., and Schwalbe, H. 1995. Effect of Increasing Cadmium Supply on Nutrition and Growth of Spruce and Beech Seedlings. Mengen- Spurenelem., Arbeitstag., 15th , 254-259
No Dose	Florijn, P. J. and Van Beusichem, M. L. 1993. Uptake and Distribution of Cadmium in Maize Inbred Lines. Plant Soil 150[1], 25-32
Media	Florijn, P. J., Nelemans, J. A., Van, Beusichem M. L., Fragoso, M. A. C., and Van, Beusichem M. L. 1993. Evaluation of structural and physiological plant characteristics in

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	relation to the distribution of cadmium in maize inbred lines. <Book> developments in plant and soil sciences; optimization of plant nutrition. Developments in Plant and Soil Sciences , 523-529
Media	Fodor, Ferenc, Sarvari, Eva, Lang, Ferenc, Szigeti, Zoltan, and Cseh, Edit. 1996. Effects of Pb and Cd on cucumber depending on the Fe-complex in the culture solution. J.Plant Physiol. 148[3/4], 434-439
OM, pH	Forbes, R. H. 1917. Certain Effects Under Irrigation of Copper Compounds upon Crops 16704. Univ.Calif., Pub.Agric.Sci. 1[12], 395-494
Media	Forge, T. A., Berrow, M. L., Darbyshire, J. F., and Warren, A. 1993. Protozoan bioassays of soil amended with sewage sludge and heavy metals, using the common soil ciliate Colpoda steinii. Biol.Fertil.Soils 16, 282-286
Rev	Fowler, B. A. and Mahaffey, K. R. 1978. Interactions Among Lead, Cadmium, and Arsenic in Relation to Porphyrin Excration Patterns. Environ Health Perspect 25, 87-90
No Control	Francis, C. W. and Rush, S. G. 1973. Factors Affecting Uptake and Distribution of Cadmium in Plants. In: D.D.Hemphill (Ed.), Trace Substances in Environmental Health, Univ.of Missouri, Columbia 7, 75-81
No Dur	Frati, Francesco, Fanciulli, Pietro Paolo, and Posthuma, Leo. 1992. Allozyme Variation in Reference and Metal-Exposed Natural Populations of Orchesella cincta (Insecta: Collembola). Biochem.Syst.Ecol. 20[4], 297-310
Rev	Friberg, L., Piscator, M., Nordberg, G., and Kjellstrom, T. 1974. Cadmium in the Environment. CRC Press, Cleveland, OH , 207-227
Mix	Fritze, H., Kapanen, A., and Vanhala, P. 1995. Cadmium contamination of wood ash and fire-treated coniferous humus: effect on soil respiration. Bulletin Of Environmental Contamination And Toxicology. 54[5], 775-782
Media	Fuhrer, J. 1982. Early Effects of Excess Cadmium Uptake in Phaseolus vulgaris. Plant Cell Environ. 5, 263-270
Media	Fujita, M. and Izumi, K. I. 1990. Induction of phytochelatin and variation of glutathione level in fruits and callus cultures of pumpkin by treatment with heavy metals. J.Food Hyg.Soc.Jpn. 31[5], 404-408

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Abstract	Furst, A. and Serda, S. 1986. Can Earthworms Substitute For Rodents In Determining Metal Toxicity 7414. Fourth International Congress Of Toxicology, Tokyo, Japan, July 21-25, 1986.Toxicol Lett (Amst) 31[Suppl.], 240
Media	Furst, A. and Nguyen, Q. 1989. Cadmium-Induced Metallothionein In Earthworms (Lumbricus terrestris). First International Meeting On Molecular Mechanisms Of Metal Toxicity And Carcinogenicity, Urbino, Italy, September 19-22, 1988.Biol Trace Elem Res 21, 81-86
Media	Gabbrielli, R., Gremigni, P., and Intrieri, T. 1990. Cadmium and Nickel Tolerance Mechanisms in Two Alyssum Species. In: 30th Congress of the Italian Soc.of Plant Physiol., Oct.15-18, 1990, Stresa, Italy, G.Biol.Ital. 124[4], 159-160
OM, pH	Gal, J. Y. and Bouche, M. B. 1988. Correlation of Lethal Concentrations of Heavy Metals with Tissue Levels of Earthworms. University of France, Montpellier, France (NTIS#ADA199269) , 34
Media	Galli, Ulrich, Meier, Martin, and Brunold, Christian. 1993. Effects of cadmium on non-mycorrhizal and mycorrhizal Norway spruce seedlings (Picea abies (L.) Karst.) and its ectomycorrhizal fungus Laccaria laccata (Scop. ex Fr.) Bk. & Br.: sulfate reduction, thiols and distribution of the heavy metal. New Phytol. 124[4], 837-843
FL	Garate, A., Ramos, I., and Lucena, J. J. 1992. Effect of cadmium on manganese uptake and distribution in different cultivars of lactuca. Suelo y Planta 2[4], 581-591
Media	Garate, A., Ramos, I., Manzanares, M., and Lucena, J. J. 1993. Cadmium Uptake and Distribution Three Cultivars of Latuca sp. Bull Environ Contam Toxicol 50, 709-716
No COC	Gavi, F., Basta, N. T., and Raun, W. R. 1997. Wheat Grain Cadmium as Affected by Long-Term Fertilization and Soil Acidity. J Environ Biol 26, 265-271
Media	Gerzabek, Martin H. and Ullah, Shan M. 1990. Influence of fulvic and humic acids on cadmium- and nickel-toxicity to Zea mays (L.). Bodenkultur 41[2], 115-124
Media	Geuns, Jan M. C., Cuypers, Ann J. F., Michiels, Tim, Colpaert, Jan V., Van, Laere Andre, Van, Den Broeck Kristel, and Vandecasteele, Carlo H. A. 1997. Mung bean seedlings as bio-indicators for soil and water contamination by cadmium. Science of the Total Environment 203[3], 183-197

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Species	Gimeno-Garcia, E., Andreu, V., and Boluda, R. 1995. Distribution of heavy metals in rice farming soils. Archives of Environmental Contamination and Toxicology 29[2], 476-483
Mix	Gingell, S. M., Campbell, R., and Martin, R. 1976. The Effect of Zinc, Lead, and Cadmium Pollution on the Leaf Surface Microflora. Environ Pollut 11[1], 25-37
Mix	Gingrich, D. J., Petering, D. H., and Shaw Iii, C. F. 1984. Zinc and Cadmium Metabolism in Euglena gracilis: Metal Distribution in Normal and Zinc-Deficient Cells. Mar Environ Res 14[1-4], 89-102
Species	Gintenreiter, S., Ortel, J., and Nopp, H. J. 1993. Effects of different dietary levels of cadmium, lead, copper, and zinc on the vitality of the forest pest insect Lymantria dispar L. (Lymantriidae, Lepid). Archives of Environmental Contamination and Toxicology , 62-66
Mix	Gintenreiter, S., Ortel, J., and Nopp, H. J. 1993. Bioaccumulation of Cadmium, Lead, Copper, and Zinc in Successive Developmental Stages of Lymantria dispar L. (Lymantriidae, Lepid): A Life Cycle Study. Archives of Environmental Contamination and Toxicology 25[1], 55-61
Mix	Giordano, P. M., Mays, D. A., and Behel, A. D., Jr. 1979. Soil Temperature Effects on the Uptake of Cadmium and Zinc by Vegetables Grown on Sludge-Amended Soil. J Environ Qual 8[2], 233-236
No Dur	Gish, C. D. and Christensen, R. E. 1973. Cadmium nickel lead and zinc in earthworms from roadside soil. Environ Sci Technol 7[11], 1060-1062
Media e	Godbold, D. L., Schlegel, H., and Hutterman, S. 1985. Heavy metals - a possible factor in spruce decline. VDI Berichte 560, 703-716
Media	Godbold, D. L. and Huttermann, A. 1985. Effect of Zinc, Cadmium and Mercury on Root Elongation of Picea abies (Karst.) Seedlings and the Significance of These Metals to Forest Die-Back. Environ Pollut 38, 375-381
Media	Godbold, D. L., Tischner, R., and Huttermann, A. 1987. Effects of Heavy Metals and Aluminum on the Root Physiology of Spruce (Picea abies Karst.) Seedlings. In: T.C.Hutchinson and K.M.Meema (Eds.), Proc.of the NATO Advanced Research Workshop on Effects of Acidic Deposition on Forests, Wetlands, and Agricultural Ecosystems, Held at Toronto, Canada, May 12-17, 1985, Springer-Verlag, NY , 387-400

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Media	Godbold, D. L., Litzinger, M., and Griese, C. 1991. Cadmium toxicity in clones of Populus-tremula. Water Air Soil Pollut. 57-58[0], 209-216
Abstract	Gomot, A., Gomot, L., Marchand, C., Aleya, L., and Verneaux, J. 1996. Use of Land Snails to Monitor Cadmium Biotoxicity 2428. In: SECOTOX, Aug.25-28, 1996, Metz, Grance
Species	Gomot, A. 1997. Dose-Dependent Effects of Cadmium on the Growth of Snails in Toxicity Bioassays. Arch.Environ.Contam.Toxicol. 33[12], 209-216
Not Avail	Gordee, R. S., Porter, C. L., and Langston, R. G. 1960. Uptake and Distribution Studies of Cadmium 115 in Peppermint 16926. Am.Soc.Horticult.Sci.Proc. 75, 525
FL	Gorlach, E. and Gambus, F. 1996. Possible limitation of cadmium uptake by plants from soils polluted with this metal. Rocz.Glebozn. 47[3/4], 31-39
Media	Graff, S., Berkus, M., Alberti, G., and Kohler, H. R. 1997. Metal Accumulation Strategies In Saprophagous And Phytophagous Soil Invertebrates: A Quantitative Comparison. Biometals 10[1], 45-53
OM	Grant, C. A. and Bailey, L. D. 1997. Effects of Phosphorus and Zinc Fertiliser Management on Cadmium Accumulation in Flaxseed. J.Sci.Food Agric. 73[3], 307-314
OM	Grant, C. A. and Bailey, L. D. 1998. Nitrogen, Phosphorus and Zinc Management Effects on Grain Yield and Cadmium Concentration in Two Cultivars of Durum Wheat. Can.J.Plant Sci. 78[1], 63-70
Rev	Grant, C. A., Buckley, W. T., Bailey, L. D., and Selles, F. 1998. Cadmium Accumulation in Crops. Can.J.Plant Sci. 78[1], 1-17
No Control	Gray, C. W., McLaren, R. G., Roberts, A. H. C., and Condron, L. M. 1999. Cadmium Phytoavailability in Some New Zealand Soils. Aust.J.Soil Res. 37[3], 461-477
FL	Greger, M. and Landberg, T. Kadmiumhalten I Salix Relaterad Till Kadmiumhalten I Jorden. Studier Av Olika Salixkloners Foermaaga Att Ta Upp Kadmium. (Cadmium Accumulation In Salix In Relation To Cadmium Concentration In The Soil). Govt-Reports-Announcements-&-Index-(GRA&I),-Issue-07,-1997

Cadmium Publications Rejected as Not 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).

Media	Greger, M., Brammer, E., Lindberg, S., Larsson, G., and Idestam-Almquist, J. 1991. Uptake and Physiological Effects of Cadmium in Sugar Beet (Beta vulgaris) Related to Mineral Provision. J.Exp.Bot. 42[239], 729-737
Media	Greger, Maria and Bertell, Gertrud. 1992. Effects of calcium and cadmium on the carbohydrate metabolism in sugar beet (Beta vulgaris). J.Exp.Bot. 43[247], 167-173
No Dose	Grejtovsky, A., Repcak, M., and Gianits, L. 1998. The influence of Soil Cadmium Eliminating Sorbents on Chamomilla recutita. J.Environ.Sci.Health B B33[3], 307-316
Media	Gstoettner, E. M. and Fisher, N. S. 1997. Accumulation of Cadmium, Chromium, and Zinc by the Moss Sphagnum papillosum Lindle. Water Air Soil Pollut 93, 321-330
No Dose	Guenther, A. and Greven, H. 1990. Increase Of The Number Of Epidermal Gland Cells: An Unspecific Response Of Lumbricus Terrestris L. (Lumbricidae: Oligochaeta) To Different Environmental Stressors. Zool Anz 225[5-6], 278-286
FL	Guo, Y., Wang, Z., Lai, Q., Zhang, Y., Xia, W., Yan, H., and Deng, J. 1995. Soil Heavy Metal Pollution And Earthworm Isozymes. Yingyong Shengtai Xuebao 6[3], 317-322
No Dose	Guo, Y., George, E., and Marschner, H. 1996. Contribution of an arbuscular mycorrhizal fungus to the uptake of cadmium and nickel in bean and maize plants. Plant Soil 184[2], 195-205
No Dose	Guo, Yanliang, Schulz, Rudolf, and Marschner, Horst. 1995. Genotypic differences in uptake and distribution of cadmium and nickel in plants. Angew.Bot. 69, 42-48
Media	Gupta, M. and Devi, S. 1992. Effect of cadmium on spore germination and gametophyte development in some ferns. Bull Environ Contam Toxicol 48[3], 337-343
OM, pH	Gupta, S. K. and Sundararaman, V. 1990. Biological Response Of Earthworm Pheretima Posthuma In Inorganic Cadmium. Indian J Exp Biol 28[1], 71-73
OM, pH	Gupta, S. K., Singh, S. B., and Sundararaman, V. 1997. Cadmium Toxicity In Earthworm, Metaphire Posthuma: Ultrastructural Changes In Secretory Cells Of Clitellar Epithelium. Indian Journal of Experimental Biology 35[7], 780-786
No COC	Gupta, V. K., Mehla, D. S., and Tomar, N. K. 1990. Influence of cadmium and sulfur on dry matter yield and their concentration in wheat in aridisols. Haryana Agric.Univ.J.Res.

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	20[2], 114-120
FL	Gushchin, A. V. and Kukushkin, A. K. 1997. Effect of nickel and cadmium ions on bean leaf delayed luminescence. Biofizika 42[2], 466-471
Media	Gussarsson, M. 1994. Cadmium-Induced Alterations in Nutrient Composition and Growth of Betula pendula Seedlings: The Significance of Fine Roots as a Primary Target for Cadmium Toxicity. J.Plant Nutr. 17[12], 2151-2163
Media	Gussarsson, M., Adalsteinsson, S., Jensen, P., and Asp, H. 1995. Cadmium and copper interactions on the accumulation and distribution of cd and cu in birch (betula pendula roth) seedlings. Plant Soil 171[1], 185-187
Media	Gussarsson, Monika and Jensen, Paul. 1992. Effects of copper and cadmium on uptake and leakage of potassium in birch (betula pendula) roots. Tree Physiology 11[3], 305-313
No Control	Guttormsen, G., Singh, B. R., and Jeng, A. S. 1995. Cadmium Concentration in Vegetable Crops Grown in a Sandy Soil as Affected by Cd Levels in Fertilizer and Soil pH. Fert.Res. 41[1], 27-32
Media	Guven, K., Duce, J. A., and De Pomerai, D. I. 1994. Evaluation of a Stress-Inducible Transgenic Nematode Strain for Rapid Aquatic Toxicity Testing. Aquat.Toxicol. 29, 119-137
Media	Guven, K., Duce, J. A., and De Pomerai, D. I. 1995. Calcium Moderation of Cadmium Stress Explored Using a Stress-Inducible Transgenic Strain of Caenorhabditis elegans. Comp Biochem Physiol 110C[1], 61-70
No Dose	Guyette, Richard P., Cutter, Bruce E., and Henderson, Gray S. 1991. Long-term correlations between mining activity and levels of lead and cadmium in tree-rings of eastern red-cedar. J.Environ.Qual. 20[1], 146-150
No Dose	Gworek, B. 1992. Inactivation of Cadmium in Contaminated Soils Using Synthetic Zeolites. Environ.Pollut. 75[3], 269-272
Mix	Gzyl, J. 1990. Lead and Cadmium Contamination of Soil and Vegetables in the Upper Silesia Region of Poland. Sci.Total Environ. 96[1/2], 199-209