

## Beryllium 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).

<b>Not Avail</b>	Bingham, J. D. and Steucek, G. L. 1972. Phloem Mobility of Beryllium in the Bean, <i>Phaseolus vulgaris</i> 5512. Proc Acad Sci 46, 16
<b>OM</b>	Bohn, H. 1979. Beryllium Effects on Potatoes and Oats in Acid Soil. Water Air Soil Pollut 11[3], 319-322
<b>OM</b>	Bohn, H. L. and Seekamp, G. 1979. Beryllium effects on potatoes <i>solanum-tuberosum</i> and oats <i>avena-sativa</i> in acid soil. Water Air Soil Pollut 11[3], 319-322
<b>Media</b>	Carlson, C. L., Adriano, D. C., Sajwan, K. S., Abels, S. L., and Thoma, D. P. 1991. Effects of Selected Trace Metals on Germinating Seeds of Six Plant Species. Water Air Soil Pollut 59[3/4], 231-240
<b>Species</b>	Curtis, G. H. 1951. Cutaneous Hypersensitivity due to Beryllium. Arch.Dermatol.Syphilol. 64, 470-482
<b>Mix</b>	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
<b>Media</b>	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
<b>No Dur</b>	Ebinger, M. H. and Hansen, W. R. 1994. Environmental Radiation Monitoring Plan For Depleted Uranium And Beryllium Areas, Yuma Proving Ground. Govt-Reports-Announcements-&-Index-(GRA&I),-Issue-23,-1994 [23]
<b>No Dur</b>	Florence TM, Farrar YJ, Dale LS, Batley GE. Beryllium Content of NBS Standard Reference Orchard Leaves. Anal Chem 1974; 46: 1874-1876.
<b>FL</b>	Gerola, F. M. and Gilardi, E. 1955. Action of Beryllium on Absorption of Phosphorus and Increases of Apical Roots (Fisiologia Vegetale - L'Azione del Berillio Sull'Assorbimento del Fosforo e Sull'Aumento in peso di Apici radicali). Atti Adad.Naz.Lincei Rend Classe Sci.Fis.Mat.Nat. 18, 533-538 (ITA)
<b>Media</b>	Gormley, C. J. and London, S. A. 1973. Effect of Beryllium on Soil Microorganisms. In:

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Proc.Annu.Conf.EnvIRON.Toxicol., Pap.No.29, AMRL-TR-73-125 , 401-416

- Media** Hara, T., Furuta, T., Sonoda, Y., and Iwai, I. 1977. Growth Response of Cabbage Plants to Beryllium and Strontium Under Water Culture Conditions. *Soil Sci.Plant Nutr.* 23[3], 373-380
- Media** Hoagland, M. B. 1952. Beryllium and Growth: II. The Effect of Beryllium on Plant Growth. *Arch.Biochem.Biophys.* 35, 249-258
- Media** Hoagland, M. B. 1952. Beryllium and Growth: III. The Effect of Beryllium on Plant Phosphatase. *Arch.Biochem.Biophys.* 35, 259-267
- Media** Holst, R. W., Schmid, W. E., and Yopp, J. H. 1975. Beryllium Absorption by Excised Barley Roots. *Plant Physiol.* 56[Suppl.], 43
- Media** Holst, R. W., Schmid, W. E., and Yopp, J. H. 1980. Beryllium Uptake by Excised Barley Roots. *Plant Cell Physiol.* 21[5], 737-743
- FL** Horovitz, C. T. and Petrescu, O. 1964. The Roles of Beryllium and of Magnesium in Plant Metabolism (Die Rolle des Berylliums und des Magnesiums für den Stoffwechsel der Pflanzen). *Trans 8th Int.Cong.Soil Sci* 4, 1205-1213
- Species** Ireland, M. P. 1986. Studies on the Effects of Dietary Beryllium at Two Different Calcium Concentrations in *Achatina fulica* (Pulmonata). *Comp Biochem Physiol Part C* 83[2], 435-438
- Media** Kosak-Channing, L. 1986. Beryllium Distribution in Hydroponically-Grown Tobacco Plants. *Plant Sci.* 46[3], 175-180
- Media** Lamersdorf, N. P., Godbold, D. L., and Knoche, D. 1991. Risk Assessment of Some Heavy Metals for the Growth of Norway Spruce 44006. *Water Air Soil Pollut* 57/58, 535-543
- FL** Langhans, D. 1984. The Influence of Beryllium on the Germination of Garden Cress (*Lepidium sativum* L.) (Der Einflub von Beryllium auf die Keimung der Gartenkresse (*Lepidium sativum* L.)). *Angew.Bot.* 58[3/4], 295-300
- FL** Nikonova, N. N. 1971. Plants as Indicators of Beryllium (Biosfere Primen). V.R.Fillipov (Ed.), *Ikh.Sel.Khoz.Med.Sib., Dalinego Vostoka; Chem.Abstr.*79 (ABS No.135810) (1973)

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, 163-166

- FL** Oustrin, M. L., Magna, H., Payet, S., and Oustrin, J. 1967. Study of the Toxicity and Localization of Beryllium in a Culture of Zea mays (Etude de la Toxicite et de la Localisation du Beryllium dans la Culture de Zea mays). Bull.Soc.Hist.Nat.Toulouse 103, 344-351 (FRE)
- Media** Romney, E. M., Childress, J. D., and Alexander, G. V. 1962. Beryllium and the Growth of Bush Beans. Science 185, 786-787
- Media** Romney, E. M., Wallace, A., Alexander, G. V., and Lunt, O. R. 1980. Effect of beryllium on mineral element composition of bush beans (and toxicity). Journal Of Plant Nutrition. 2[1/2], 103-106
- Media** Silverman, L. 1959. Control of Neighborhood Contamination near Beryllium-Using Plants. Arch.Ind.Health 19, 254-262
- Media** Tso, T. C., Sorokin, T. P., and Engelhaupt, M. E. 1973. Effects of Some Rare Elements on Nicotine Content of the Tobacco Plant. Plant Physiol 51, 805-806
- Media** Wallace, A. and Romney, E. M. 1966. Effect of Beryllium on In Vitro Carboxylation Reactions. Curr.Topics Plant Nutr. 185-188
- No Dur** Williams, R. J. B. 1965. Effect of Beryllium in Kale  
19978. Reprint from Rothamsted Exp.Station (1964) , 66-67
- No Om** Williams, R. J. B. and Le Riche, H. H. 1968. The Effects of Traces of Beryllium on the Growth of Kale, Grass, and Mustard. Plant Soil (Netherlands) 29[2], 317-326
- No Om** Williams, R. J. B. and LeRiche, H. H. 1968. The Effect of Traces of Beryllium on the Growth of Kale, Grass, and Mustard. Plant Soil 29, 317-326