

COMPARISON OF EPA'S SOIL SCREENING LEVELS For Humans, Plants, Soil Invertebrates, Mammals, and Birds with Average Concentrations for the Conterminous US.

Element	Insert Your Results	Plants (Eco-SSL)***	Soil Invertebrates (Eco-SSL)***	Avian wildlife (Eco-SSL)***	Mammalian wildlife (Eco-SSL)***	Average background in soil*	Human-health SSL (EPA Human SSLs)****
Chromium III		NA	NA	26	34	54 [Cr(III) + Cr(VI)]	210 [Cr(III) + Cr(VI)]
Chromium VI		NA	NA	NA	81	54 [Cr(III) + Cr(VI)]	210 [Cr(III) + Cr(VI)]
Antimony		NA	78	NA	0.27	0.66	31
Arsenic		18	NA	43	46	7.2	0.39 (cancer endpoint; 22 noncancer)
Barium		NA	330	NA	2000	580	16,000
Beryllium		NA	40	NA	21	0.92	160
Cadmium		32	140	0.77	0.36	approx. 0.3**	39
Cobalt		13	NA	120	230	9.1	900
Copper		70	80	28	49	25	2,900
Lead		120	1700	11	56	19	400
Manganese		220	450	4300	4000	550	3,500
Mercury		NA	NA	NA	NA	NA	23
Molybdenum		NA	NA	NA	NA	NA	390
Nickel		38	280	210	130	19	1,600
Selenium		0.52	4.1	1.2	0.63	0.39	390
Silver		560	NA	4.2	14	<1**	390
Strontium		NA	NA	NA	NA	NA	47,000
Tin		NA	NA	NA	NA	NA	47,000
Vanadium		NA	NA	7.8	280	80	390
Zinc		160	120	46	79	60	23,000
All concentration values in mg/kg (same as ppm); NA = not available							
* Data from Shacklette and Boerngen (1984)							
**Data from Smith et al. (2005)							
*** EPA Ecological Soil Screening Levels <a href="http://www.epa.gov/ecotox/ecossl/">http://www.epa.gov/ecotox/ecossl/</a>							
****EPA Region VI Human Health Soil Screening Levels							