

US EPA ARCHIVE DOCUMENT

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Chromium (Adult)**

Climate Region	Product	soil conc (mg/kg)	fruit conc (mg/kg-DW)	above-ground vegetable conc (mg/kg-DW)	below-ground veg conc (mg/kg)	beef conc (mg/kg)	milk conc (mg/kg)	fish conc (mg/kg)	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
Seattle, WA	Boron	0.00027	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.03420	0.00016	0.00013	0.00005	0.00019	0.00007	0.00000	0.00001	0.00001	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	13.90000	0.04670	0.03330	0.01570	0.06400	0.02330	0.00046	0.00300	0.00201	0.00100	0.00020	0.03000	0.02000	0.00000	0.00000	0.05321
	Micronutrients	0.07950	0.00025	0.00020	0.00011	0.00038	0.00011	0.00000	0.00002	0.00002	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00063
	Mn	0.00231	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	NPK as N	1.29000	0.00528	0.00422	0.00178	0.00791	0.00251	0.00005	0.00030	0.00040	0.00020	0.00003	0.00401	0.00601	0.00000	0.00000	0.01065
	NPK for P2O5	0.70200	0.00224	0.00151	0.00094	0.00293	0.00092	0.00003	0.00020	0.00010	0.00005	0.00001	0.00100	0.00200	0.00000	0.00000	0.00316
	P2O5 - 1	193.00000	0.60000	0.44600	0.19100	0.76200	0.21200	0.00751	0.04010	0.02010	0.01000	0.00200	0.20100	0.40000	0.00003	0.00001	0.63310
	Potash	0.00629	0.00002	0.00001	0.00001	0.00003	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	S as Nutrient	0.25900	0.00087	0.00062	0.00030	0.00116	0.00033	0.00001	0.00006	0.00005	0.00002	0.00000	0.00050	0.00060	0.00000	0.00000	0.00117
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.17200	0.00064	0.00048	0.00023	0.00079	0.00024	0.00001	0.00005	0.00005	0.00002	0.00000	0.00040	0.00060	0.00000	0.00000	0.00107
	Albuquerque, NM	Boron	0.00131	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000
Gypsum Products		0.20600	0.00074	0.00068	0.00034	0.00139	0.00052	0.00000	0.00005	0.00005	0.00003	0.00001	0.00080	0.00080	0.00000	0.00169	
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		86.50000	0.22700	0.19900	0.13400	0.44400	0.13000	0.00038	0.02000	0.01000	0.00600	0.00101	0.20000	0.20000	0.00000	0.00000	0.41701
Micronutrients		0.44200	0.00128	0.00111	0.00076	0.00310	0.00121	0.00000	0.00010	0.00007	0.00004	0.00001	0.00200	0.00200	0.00000	0.00000	0.00412
Mn		0.01200	0.00004	0.00004	0.00002	0.00008	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00006	0.00005	0.00000	0.00000	0.00012
NPK as N		10.30000	0.02690	0.02460	0.01360	0.04930	0.01720	0.00004	0.00300	0.00200	0.00090	0.00020	0.03000	0.04000	0.00000	0.00000	0.07310
NPK for P2O5		5.15000	0.01100	0.00937	0.00705	0.01880	0.00506	0.00002	0.00100	0.00050	0.00030	0.00007	0.01000	0.00901	0.00000	0.00000	0.01988
P2O5 - 1		1370.00000	2.97000	2.46000	1.34000	4.68000	1.14000	0.00490	0.30000	0.10000	0.07010	0.01000	2.00000	2.01000	0.00001	0.00004	4.19010
Potash		0.04470	0.00010	0.00008	0.00005	0.00019	0.00006	0.00000	0.00001	0.00000	0.00000	0.00000	0.00009	0.00009	0.00000	0.00000	0.00019
S as Nutrient		1.83000	0.00429	0.00394	0.00231	0.00736	0.00224	0.00001	0.00050	0.00020	0.00010	0.00003	0.00301	0.00500	0.00000	0.00000	0.00834
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		1.05000	0.00329	0.00306	0.00155	0.00574	0.00221	0.00000	0.00030	0.00020	0.00010	0.00003	0.00300	0.00501	0.00000	0.00000	0.00834
Atlanta, GA		Boron	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.02460	0.00010	0.00008	0.00004	0.00014	0.00005	0.00000	0.00001	0.00001	0.00000	0.00000	0.00008	0.00008	0.00000	0.00017	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	9.97000	0.03160	0.02360	0.01150	0.04470	0.01510	0.00028	0.00200	0.00200	0.00090	0.00020	0.02000	0.02000	0.00000	0.00000	0.04310
	Micronutrients	0.05690	0.00017	0.00014	0.00008	0.00025	0.00008	0.00000	0.00001	0.00001	0.00000	0.00000	0.00020	0.00020	0.00000	0.00000	0.00042
	Mn	0.00165	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	
	NPK as N	0.91900	0.00366	0.00300	0.00127	0.00554	0.00174	0.00003	0.00020	0.00020	0.00010	0.00002	0.00300	0.00400	0.00000	0.00000	0.00732
	NPK for P2O5	0.52900	0.00180	0.00121	0.00067	0.00219	0.00067	0.00002	0.00010	0.00008	0.00003	0.00001	0.00100	0.00100	0.00000	0.00000	0.00212
	P2O5 - 1	138.00000	0.41200	0.32800	0.13800	0.51600	0.14000	0.00445	0.03000	0.01000	0.00900	0.00101	0.20000	0.30000	0.00002	0.00001	0.52001
	Potash	0.00450	0.00002	0.00001	0.00001	0.00002	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	
	S as Nutrient	0.18500	0.00058	0.00042	0.00022	0.00078	0.00024	0.00001	0.00004	0.00003	0.00001	0.00000	0.00030	0.00040	0.00000	0.00000	0.00074
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.12500	0.00045	0.00033	0.00017	0.00051	0.00016	0.00000	0.00003	0.00003	0.00001	0.00000	0.00030	0.00040	0.00000	0.00000	0.00074

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Climate Region	Product	soil conc (mg/kg)	fruit conc (mg/kg-DW)	above-ground vegetable conc (mg/kg-DW)	below-ground veg conc (mg/kg)	beef conc (mg/kg)	milk conc (mg/kg)	fish conc (mg/kg)	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
Bismarck, ND	Boron	0.00057	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.07550	0.00024	0.00022	0.00012	0.00038	0.00014	0.00000	0.00002	0.00002	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00043
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	31.80000	0.06060	0.05480	0.03640	0.14200	0.04270	0.00009	0.00800	0.00300	0.00200	0.00050	0.07000	0.05000	0.00000	0.00000	0.12550
	Micronutrients	0.17800	0.00037	0.00035	0.00025	0.00072	0.00024	0.00000	0.00004	0.00002	0.00001	0.00000	0.00060	0.00050	0.00000	0.00000	0.00113
	Mn	0.00509	0.00001	0.00001	0.00001	0.00003	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00002	0.00001	0.00000	0.00000	0.00003
	NPK as N	3.05000	0.00847	0.00812	0.00421	0.01650	0.00577	0.00001	0.00070	0.00040	0.00030	0.00006	0.00801	0.01000	0.00000	0.00000	0.01877
	NPK for P2O5	1.56000	0.00325	0.00276	0.00223	0.00596	0.00155	0.00000	0.00040	0.00010	0.00008	0.00002	0.00300	0.00300	0.00000	0.00000	0.00620
	P2O5 - 1	456.00000	0.77200	0.71200	0.44500	1.43000	0.35700	0.00128	0.10000	0.03010	0.02000	0.00500	0.50000	0.70100	0.00001	0.00005	1.25610
	Potash	0.01500	0.00003	0.00003	0.00002	0.00006	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00002	0.00000	0.00000	0.00005
	S as Nutrient	0.60000	0.00113	0.00107	0.00072	0.00229	0.00057	0.00000	0.00010	0.00006	0.00003	0.00001	0.00100	0.00100	0.00000	0.00000	0.00210
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.37300	0.00093	0.00087	0.00053	0.00146	0.00047	0.00000	0.00010	0.00006	0.00003	0.00001	0.00070	0.00100	0.00000	0.00000	0.00180
	Boise, ID	Boron	0.00131	0.00001	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000
Gypsum Products		0.21100	0.00077	0.00070	0.00035	0.00141	0.00054	0.00000	0.00006	0.00005	0.00003	0.00001	0.00080	0.00080	0.00000	0.00169	
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		88.40000	0.23300	0.20600	0.13400	0.44400	0.14800	0.00040	0.02000	0.01000	0.00700	0.00101	0.20000	0.20000	0.00000	0.00001	
Micronutrients		0.45400	0.00139	0.00121	0.00079	0.00316	0.00119	0.00000	0.00010	0.00008	0.00005	0.00001	0.00200	0.00200	0.00000	0.00000	
Mn		0.01270	0.00004	0.00004	0.00002	0.00008	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00006	0.00005	0.00000	0.00000	
NPK as N		10.30000	0.03090	0.02610	0.01400	0.05250	0.01810	0.00005	0.00300	0.00200	0.00090	0.00020	0.03010	0.04000	0.00000	0.00000	
NPK for P2O5		5.44000	0.01260	0.01050	0.00714	0.01870	0.00565	0.00002	0.00100	0.00070	0.00030	0.00007	0.01000	0.01000	0.00000	0.00000	
P2O5 - 1		1380.00000	3.47000	2.66000	1.38000	4.73000	1.21000	0.00555	0.30000	0.20000	0.07010	0.01000	2.00000	2.00000	0.00002	0.00007	
Potash		0.04620	0.00012	0.00009	0.00005	0.00019	0.00006	0.00000	0.00001	0.00001	0.00000	0.00000	0.00009	0.00009	0.00000	0.00000	
S as Nutrient		1.86000	0.00481	0.00420	0.00231	0.00781	0.00240	0.00001	0.00050	0.00030	0.00010	0.00003	0.00400	0.00500	0.00000	0.00943	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.06000	0.00343	0.00314	0.00156	0.00598	0.00223	0.00000	0.00030	0.00020	0.00010	0.00003	0.00300	0.00600	0.00000	0.00933	
Boulder, CO		Boron	0.00107	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	
	Gypsum Products	0.16100	0.00058	0.00051	0.00026	0.00094	0.00035	0.00000	0.00004	0.00005	0.00002	0.00001	0.00060	0.00060	0.00000		
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Liming Materials	69.20000	0.18600	0.14900	0.09660	0.32800	0.09970	0.00072	0.02000	0.00901	0.00501	0.00100	0.20000	0.10000	0.00001		
	Micronutrients	0.36100	0.00105	0.00092	0.00060	0.00203	0.00075	0.00000	0.00009	0.00005	0.00003	0.00001	0.00100	0.00100	0.00000		
	Mn	0.00995	0.00004	0.00003	0.00001	0.00006	0.00002	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000		
	NPK as N	7.25000	0.02240	0.02040	0.01080	0.03830	0.01440	0.00009	0.00200	0.00100	0.00070	0.00010	0.02010	0.02010	0.00000		
	NPK for P2O5	3.72000	0.00996	0.00824	0.00528	0.01540	0.00425	0.00004	0.00090	0.00050	0.00020	0.00006	0.00700	0.00801	0.00000		
	P2O5 - 1	1000.00000	2.78000	2.10000	1.14000	3.76000	1.05000	0.01150	0.20100	0.10000	0.06000	0.01000	1.00000	2.00000	0.00004		
	Potash	0.03560	0.00008	0.00007	0.00004	0.00016	0.00004	0.00000	0.00001	0.00000	0.00000	0.00000	0.00007	0.00007	0.00000		
	S as Nutrient	1.36000	0.00352	0.00294	0.00178	0.00576	0.00166	0.00001	0.00030	0.00020	0.00009	0.00002	0.00300	0.00300	0.00000		
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Zinc	0.82500	0.00271	0.00228	0.00112	0.00402	0.00134	0.00001	0.00020	0.00020	0.00008	0.00002	0.00200	0.00301	0.00000		

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Casper, WY	Boron	0.00074	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	
	Gypsum Products	0.10500	0.00032	0.00030	0.00016	0.00053	0.00019	0.00000	0.00003	0.00002	0.00001	0.00000	0.00030	0.00040	0.00000	0.00000	0.00073	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	43.70000	0.08680	0.07890	0.05390	0.19100	0.06000	0.00013	0.01000	0.00500	0.00300	0.00060	0.10000	0.07000	0.00000	0.00001	0.17860	
	Micronutrients	0.24200	0.00054	0.00051	0.00034	0.00101	0.00037	0.00000	0.00006	0.00003	0.00001	0.00001	0.00080	0.00060	0.00000	0.00000	0.00145	
	Mn	0.00693	0.00002	0.00002	0.00001	0.00004	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004	
	NPK as N	4.33000	0.01170	0.01110	0.00614	0.02390	0.00770	0.00001	0.00100	0.00060	0.00040	0.00009	0.01000	0.02000	0.00000	0.00000	0.03109	
	NPK for P2O5	2.26000	0.00438	0.00375	0.00327	0.00822	0.00214	0.00001	0.00060	0.00020	0.00010	0.00004	0.00300	0.00401	0.00000	0.00000	0.00735	
	P2O5 - 1	604.00000	1.10000	0.97400	0.64000	2.13000	0.52400	0.00191	0.10100	0.05010	0.03000	0.00700	0.70100	1.00000	0.00001	0.00009	1.78810	
	Potash	0.02080	0.00004	0.00004	0.00002	0.00009	0.00002	0.00000	0.00001	0.00000	0.00000	0.00000	0.00004	0.00003	0.00000	0.00000	0.00007	
	S as Nutrient	0.84000	0.00156	0.00144	0.00104	0.00341	0.00082	0.00000	0.00020	0.00009	0.00004	0.00001	0.00101	0.00200	0.00000	0.00000	0.00315	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.52100	0.00128	0.00121	0.00070	0.00205	0.00068	0.00000	0.00010	0.00009	0.00005	0.00001	0.00100	0.00200	0.00000	0.00000	0.00315	
	Charleston, SC	Boron	0.00021	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.02610	0.00010	0.00009	0.00004	0.00014	0.00005	0.00000	0.00001	0.00001	0.00000	0.00000	0.00009	0.00008	0.00000	0.00018	
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Liming Materials		10.60000	0.02610	0.02210	0.01230	0.04680	0.01580	0.00021	0.00300	0.00200	0.00090	0.00020	0.02000	0.02000	0.00000	0.00000	0.04310	
Micronutrients		0.06050	0.00017	0.00014	0.00009	0.00024	0.00008	0.00000	0.00002	0.00001	0.00000	0.00000	0.00020	0.00020	0.00000	0.00042		
Mn		0.00176	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00001		
NPK as N		0.97600	0.00330	0.00287	0.00135	0.00561	0.00186	0.00002	0.00020	0.00020	0.00010	0.00002	0.00300	0.00401	0.00000	0.00000		
NPK for P2O5		0.56200	0.00130	0.00110	0.00072	0.00224	0.00059	0.00001	0.00010	0.00007	0.00003	0.00001	0.00100	0.00100	0.00000	0.00211		
P2O5 - 1		146.00000	0.37000	0.30400	0.14600	0.49900	0.12900	0.00320	0.03010	0.02000	0.00801	0.00200	0.20000	0.30000	0.00001	0.00000	0.53001	
Potash		0.00478	0.00001	0.00001	0.00001	0.00002	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00002		
S as Nutrient		0.19700	0.00053	0.00038	0.00023	0.00078	0.00022	0.00000	0.00005	0.00003	0.00001	0.00000	0.00040	0.00040	0.00000	0.00084		
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Zinc		0.13300	0.00040	0.00033	0.00018	0.00055	0.00016	0.00000	0.00004	0.00003	0.00001	0.00000	0.00030	0.00040	0.00000	0.00074		
Chicago, IL		Boron	0.00031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
		Gypsum Products	0.03890	0.00018	0.00014	0.00006	0.00022	0.00008	0.00000	0.00001	0.00001	0.00001	0.00000	0.00020	0.00010	0.00000	0.00032	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Liming Materials	15.90000	0.05740	0.04070	0.01820	0.07340	0.02650	0.00030	0.00400	0.00300	0.00200	0.00020	0.04000	0.03000	0.00000	0.07520		
	Micronutrients	0.09090	0.00031	0.00024	0.00013	0.00044	0.00013	0.00000	0.00002	0.00002	0.00001	0.00000	0.00030	0.00030	0.00000	0.00063		
	Mn	0.00263	0.00001	0.00001	0.00000	0.00002	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00002		
	NPK as N	1.47000	0.00615	0.00476	0.00204	0.00887	0.00291	0.00003	0.00040	0.00030	0.00020	0.00003	0.00500	0.00700	0.00000	0.01253		
	NPK for P2O5	0.84900	0.00302	0.00204	0.00107	0.00372	0.00113	0.00002	0.00020	0.00010	0.00006	0.00001	0.00101	0.00200	0.00000	0.00318		
	P2O5 - 1	221.00000	0.69000	0.46700	0.21900	0.87400	0.25100	0.00466	0.05000	0.03000	0.01000	0.00200	0.30000	0.50000	0.00002	0.00001	0.84200	
	Potash	0.00721	0.00003	0.00002	0.00001	0.00004	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00002		
	S as Nutrient	0.29600	0.00102	0.00074	0.00035	0.00130	0.00042	0.00001	0.00007	0.00005	0.00002	0.00000	0.00060	0.00070	0.00000	0.00137		
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Zinc	0.19800	0.00078	0.00058	0.00027	0.00089	0.00026	0.00000	0.00005	0.00005	0.00002	0.00001	0.00050	0.00070	0.00000	0.00128		

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Chromium (Adult)**

Climate Region	Product	soil conc (mg/kg)	fruit conc (mg/kg-DW)	above-ground vegetable conc (mg/kg-DW)	below-ground veg conc (mg/kg)	beef conc (mg/kg)	milk conc (mg/kg)	fish conc (mg/kg)	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
Cleveland, OH	Boron	0.00029	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.03600	0.00016	0.00013	0.00006	0.00021	0.00007	0.00000	0.00001	0.00001	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00022
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	14.70000	0.05060	0.03680	0.01690	0.06790	0.02280	0.00027	0.00400	0.00300	0.00101	0.00020	0.04000	0.03000	0.00000	0.00000	0.07421
	Micronutrients	0.08420	0.00029	0.00022	0.00012	0.00040	0.00012	0.00000	0.00002	0.00002	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00063
	Mn	0.00244	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	NPK as N	1.36000	0.00551	0.00436	0.00188	0.00829	0.00267	0.00003	0.00030	0.00040	0.00020	0.00003	0.00401	0.00700	0.00000	0.00000	0.01164
	NPK for P2O5	0.78300	0.00270	0.00191	0.00099	0.00336	0.00102	0.00002	0.00020	0.00010	0.00005	0.00001	0.00101	0.00200	0.00000	0.00000	0.00317
	P2O5 - 1	204.00000	0.63900	0.43200	0.20300	0.78100	0.21400	0.00435	0.05000	0.03010	0.01000	0.00200	0.30000	0.40100	0.00002	0.00001	0.74310
	Potash	0.00667	0.00002	0.00002	0.00001	0.00003	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	S as Nutrient	0.27400	0.00093	0.00061	0.00032	0.00115	0.00038	0.00001	0.00007	0.00006	0.00002	0.00000	0.00060	0.00070	0.00000	0.00000	0.00138
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.18400	0.00074	0.00053	0.00025	0.00083	0.00025	0.00000	0.00005	0.00005	0.00002	0.00000	0.00050	0.00070	0.00000	0.00000	0.00127
	Fresno, CA	Boron	0.00130	0.00001	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000
		Gypsum Products	0.20600	0.00075	0.00068	0.00033	0.00137	0.00051	0.00000	0.00005	0.00003	0.00001	0.00080	0.00080	0.00000	0.00000	0.00169
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		87.30000	0.22900	0.20100	0.13400	0.43300	0.12900	0.00038	0.02000	0.01000	0.00602	0.00101	0.20000	0.20000	0.00000	0.00000	0.41703
Micronutrients		0.44800	0.00125	0.00111	0.00079	0.00309	0.00120	0.00000	0.00010	0.00007	0.00005	0.00001	0.00200	0.00200	0.00000	0.00413	
Mn		0.01200	0.00004	0.00004	0.00002	0.00008	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00006	0.00005	0.00000	0.00012	
NPK as N		10.40000	0.02890	0.02480	0.01360	0.04900	0.01800	0.00005	0.00300	0.00200	0.00090	0.00020	0.03000	0.04000	0.00000	0.00000	0.07310
NPK for P2O5		5.30000	0.01140	0.00935	0.00705	0.01870	0.00494	0.00002	0.00100	0.00060	0.00030	0.00007	0.01000	0.00901	0.00000	0.00000	0.01998
P2O5 - 1		1340.00000	3.09000	2.55000	1.38000	4.75000	1.18000	0.00535	0.30000	0.10100	0.07020	0.01000	2.00000	2.01000	0.00002	0.00005	4.19120
Potash		0.04600	0.00010	0.00009	0.00005	0.00019	0.00005	0.00000	0.00001	0.00000	0.00000	0.00000	0.00009	0.00008	0.00000	0.00018	
S as Nutrient		1.82000	0.00474	0.00414	0.00232	0.00774	0.00237	0.00001	0.00050	0.00020	0.00010	0.00003	0.00300	0.00500	0.00000	0.00000	0.00833
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.05000	0.00325	0.00302	0.00152	0.00583	0.00222	0.00000	0.00030	0.00020	0.00010	0.00003	0.00300	0.00501	0.00000	0.00000	0.00834
Grand Island, NE		Boron	0.00057	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.07780	0.00025	0.00023	0.00012	0.00040	0.00014	0.00000	0.00002	0.00002	0.00001	0.00000	0.00020	0.00020	0.00000	0.00043
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	32.80000	0.06190	0.05580	0.03710	0.14400	0.04420	0.00017	0.00800	0.00300	0.00200	0.00050	0.07000	0.05000	0.00000	0.12550	
	Micronutrients	0.18400	0.00040	0.00038	0.00026	0.00074	0.00024	0.00000	0.00005	0.00002	0.00001	0.00000	0.00060	0.00050	0.00000	0.00114	
	Mn	0.00519	0.00001	0.00001	0.00001	0.00003	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00002	0.00001	0.00000	0.00003	
	NPK as N	3.13000	0.00841	0.00796	0.00430	0.01710	0.00593	0.00002	0.00080	0.00040	0.00030	0.00006	0.00801	0.01000	0.00000	0.01877	
	NPK for P2O5	1.59000	0.00360	0.00300	0.00229	0.00599	0.00164	0.00001	0.00040	0.00010	0.00008	0.00002	0.00300	0.00300	0.00000	0.00620	
	P2O5 - 1	468.00000	0.86200	0.76400	0.45100	1.50000	0.36900	0.00220	0.10000	0.03010	0.02000	0.00500	0.50100	0.70000	0.00001	0.00004	1.25610
	Potash	0.01530	0.00003	0.00003	0.00002	0.00007	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00002	0.00000	0.00005	
	S as Nutrient	0.61500	0.00119	0.00111	0.00074	0.00236	0.00061	0.00000	0.00010	0.00006	0.00003	0.00001	0.00100	0.00100	0.00000	0.00210	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.38300	0.00095	0.00089	0.00055	0.00152	0.00048	0.00000	0.00010	0.00007	0.00004	0.00001	0.00080	0.00100	0.00000	0.00192	

99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Chromium (Adult)

Climate Region	Product	soil conc (mg/kg)	fruit conc (mg/kg-DW)	above-ground vegetable conc (mg/kg-DW)	below-ground veg conc (mg/kg)	beef conc (mg/kg)	milk conc (mg/kg)	fish conc (mg/kg)	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹	
Harrisburg, PA	Boron	0.00025	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Gypsum Products	0.03160	0.00011	0.00010	0.00005	0.00017	0.00006	0.00000	0.00001	0.00001	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	12.80000	0.03030	0.02570	0.01480	0.05510	0.01810	0.00035	0.00300	0.00101	0.00090	0.00020	0.03000	0.02000	0.00000	0.00000	0.05211	
	Micronutrients	0.07330	0.00018	0.00016	0.00011	0.00030	0.00009	0.00000	0.00002	0.00001	0.00000	0.00000	0.00020	0.00020	0.00000	0.00000	0.00042	
	Mn	0.00212	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001	
	NPK as N	1.18000	0.00401	0.00341	0.00164	0.00686	0.00222	0.00004	0.00030	0.00020	0.00010	0.00003	0.00301	0.00501	0.00000	0.00000	0.00835	
	NPK for P2O5	0.68100	0.00161	0.00137	0.00086	0.00246	0.00072	0.00002	0.00020	0.00007	0.00004	0.00001	0.00100	0.00100	0.00000	0.00000	0.00212	
	P2O5 - 1	177.00000	0.40700	0.35700	0.17700	0.62000	0.15300	0.00587	0.04000	0.02000	0.00901	0.00200	0.20000	0.30000	0.00002	0.00001	0.53101	
	Potash	0.00579	0.00001	0.00001	0.00001	0.00003	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	S as Nutrient	0.23800	0.00056	0.00046	0.00028	0.00091	0.00027	0.00001	0.00006	0.00003	0.00001	0.00000	0.00040	0.00050	0.00000	0.00000	0.00094	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.16100	0.00044	0.00039	0.00022	0.00062	0.00019	0.00000	0.00004	0.00003	0.00002	0.00000	0.00030	0.00050	0.00000	0.00000	0.00086	
	Hartford, CT	Boron	0.00022	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.02770	0.00010	0.00009	0.00004	0.00015	0.00005	0.00000	0.00001	0.00001	0.00000	0.00000	0.00008	0.00009	0.00000	0.00000	0.00018
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		11.30000	0.02630	0.02300	0.01300	0.04850	0.01540	0.00039	0.00300	0.00100	0.00070	0.00020	0.02000	0.02000	0.00000	0.00000	0.04190	
Micronutrients		0.06430	0.00016	0.00014	0.00009	0.00025	0.00008	0.00000	0.00002	0.00001	0.00000	0.00000	0.00020	0.00020	0.00000	0.00000	0.00042	
Mn		0.00187	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001	
NPK as N		1.04000	0.00342	0.00297	0.00144	0.00597	0.00195	0.00005	0.00030	0.00020	0.00010	0.00002	0.00300	0.00500	0.00000	0.00000	0.00832	
NPK for P2O5		0.59800	0.00140	0.00120	0.00076	0.00214	0.00062	0.00002	0.00010	0.00006	0.00003	0.00001	0.00100	0.00100	0.00000	0.00000	0.00210	
P2O5 - 1		156.00000	0.31300	0.27200	0.15500	0.51600	0.13800	0.00627	0.04000	0.01010	0.00800	0.00200	0.20000	0.30000	0.00002	0.00001	0.52010	
Potash		0.00509	0.00001	0.00001	0.00001	0.00002	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
S as Nutrient		0.20900	0.00044	0.00038	0.00025	0.00078	0.00022	0.00001	0.00005	0.00003	0.00001	0.00000	0.00040	0.00040	0.00000	0.00000	0.00084	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		0.14100	0.00038	0.00034	0.00019	0.00056	0.00017	0.00000	0.00004	0.00003	0.00001	0.00000	0.00030	0.00040	0.00000	0.00000	0.00074	
Houston, TX		Boron	0.00026	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.03210	0.00011	0.00010	0.00005	0.00017	0.00006	0.00000	0.00001	0.00001	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	13.10000	0.02860	0.02540	0.01500	0.05570	0.01780	0.00032	0.00300	0.00101	0.00090	0.00020	0.03000	0.02000	0.00000	0.00000	0.05211	
	Micronutrients	0.07460	0.00016	0.00016	0.00011	0.00028	0.00009	0.00000	0.00002	0.00001	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00042	
	Mn	0.00216	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001	
	NPK as N	1.21000	0.00363	0.00330	0.00167	0.00691	0.00226	0.00003	0.00030	0.00020	0.00010	0.00003	0.00301	0.00500	0.00000	0.00000	0.00834	
	NPK for P2O5	0.69500	0.00141	0.00129	0.00088	0.00250	0.00071	0.00002	0.00020	0.00007	0.00003	0.00001	0.00100	0.00100	0.00000	0.00000	0.00211	
	P2O5 - 1	181.00000	0.35300	0.29900	0.18000	0.60400	0.15600	0.00482	0.04000	0.01000	0.00901	0.00200	0.20000	0.30000	0.00002	0.00000	0.52101	
	Potash	0.00591	0.00001	0.00001	0.00001	0.00003	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	S as Nutrient	0.24300	0.00051	0.00044	0.00029	0.00094	0.00025	0.00001	0.00006	0.00003	0.00001	0.00000	0.00040	0.00050	0.00000	0.00000	0.00094	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.16300	0.00041	0.00037	0.00022	0.00064	0.00019	0.00000	0.00004	0.00003	0.00002	0.00000	0.00030	0.00050	0.00000	0.00000	0.00086	

99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Chromium (Adult)

Climate Region	Product	soil conc (mg/kg)	fruit conc (mg/kg-DW)	above-ground vegetable conc (mg/kg-DW)	below-ground veg conc (mg/kg)	beef conc (mg/kg)	milk conc (mg/kg)	fish conc (mg/kg)	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
Huntington, WV	Boron	0.00024	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.03010	0.00012	0.00011	0.00005	0.00016	0.00005	0.00000	0.00001	0.00001	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	12.20000	0.03190	0.02630	0.01410	0.05280	0.01760	0.00028	0.00300	0.00200	0.00090	0.00020	0.03000	0.02000	0.00000	0.00000	0.05310
	Micronutrients	0.06970	0.00019	0.00016	0.00010	0.00028	0.00009	0.00000	0.00002	0.00001	0.00000	0.00000	0.00020	0.00020	0.00000	0.00000	0.00042
	Mn	0.00202	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
	NPK as N	1.13000	0.00388	0.00333	0.00156	0.00662	0.00214	0.00003	0.00030	0.00020	0.00010	0.00002	0.00301	0.00500	0.00000	0.00000	0.00833
	NPK for P2O5	0.64800	0.00166	0.00137	0.00082	0.00243	0.00070	0.00002	0.00010	0.00008	0.00003	0.00001	0.00100	0.00100	0.00000	0.00000	0.00212
	P2O5 - 1	169.00000	0.41000	0.35200	0.16800	0.59000	0.16200	0.00458	0.04000	0.02000	0.00901	0.00200	0.20000	0.30000	0.00002	0.00001	0.53101
	Potash	0.00551	0.00001	0.00001	0.00001	0.00003	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	S as Nutrient	0.22700	0.00058	0.00045	0.00027	0.00093	0.00027	0.00001	0.00005	0.00004	0.00001	0.00000	0.00040	0.00050	0.00000	0.00000	0.00095
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.15300	0.00046	0.00039	0.00021	0.00063	0.00019	0.00000	0.00004	0.00003	0.00002	0.00000	0.00030	0.00050	0.00000	0.00000	0.00085
	Las Vegas, NV	Boron	0.00127	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000
Gypsum Products		0.20700	0.00067	0.00064	0.00033	0.00134	0.00050	0.00000	0.00005	0.00005	0.00002	0.00001	0.00070	0.00080	0.00000	0.00158	
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		86.40000	0.20100	0.18700	0.13000	0.41600	0.11700	0.00037	0.02000	0.01000	0.00600	0.00100	0.20000	0.20000	0.00000	0.00001	0.41700
Micronutrients		0.44700	0.00112	0.00105	0.00079	0.00307	0.00119	0.00000	0.00010	0.00006	0.00004	0.00001	0.00200	0.00200	0.00000	0.00000	0.00411
Mn		0.01220	0.00004	0.00004	0.00002	0.00008	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00006	0.00005	0.00000	0.00000	0.00012
NPK as N		9.98000	0.02520	0.02310	0.01400	0.05000	0.01700	0.00004	0.00201	0.00101	0.00080	0.00020	0.03000	0.03000	0.00000	0.00000	0.06201
NPK for P2O5		5.38000	0.00934	0.00839	0.00714	0.01790	0.00463	0.00002	0.00100	0.00050	0.00030	0.00007	0.01000	0.00900	0.00000	0.00000	0.01987
P2O5 - 1		1370.00000	2.57000	2.20000	1.34000	4.42000	1.05000	0.00517	0.30000	0.09010	0.07000	0.01000	2.00000	2.00000	0.00001	0.00007	4.17010
Potash		0.04390	0.00009	0.00008	0.00005	0.00019	0.00005	0.00000	0.00001	0.00000	0.00000	0.00000	0.00009	0.00009	0.00000	0.00000	0.00019
S as Nutrient		1.81000	0.00402	0.00376	0.00226	0.00722	0.00218	0.00001	0.00050	0.00020	0.00010	0.00003	0.00300	0.00400	0.00000	0.00000	0.00733
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.03000	0.00301	0.00279	0.00154	0.00560	0.00217	0.00000	0.00030	0.00020	0.00010	0.00003	0.00300	0.00500	0.00000	0.00000	0.00833
Los Angeles, CA		Boron	0.00080	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	Gypsum Products	0.11300	0.00039	0.00035	0.00017	0.00059	0.00021	0.00000	0.00003	0.00003	0.00001	0.00000	0.00040	0.00040	0.00000	0.00084	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	47.70000	0.12000	0.09560	0.05980	0.22100	0.06730	0.00012	0.01000	0.00700	0.00300	0.00070	0.10000	0.08000	0.00000	0.00000	0.19070
	Micronutrients	0.26100	0.00071	0.00060	0.00037	0.00121	0.00042	0.00000	0.00006	0.00004	0.00002	0.00001	0.00100	0.00080	0.00000	0.00000	0.00187
	Mn	0.00738	0.00002	0.00002	0.00001	0.00004	0.00002	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00002	0.00000	0.00000	
	NPK as N	4.68000	0.01470	0.01290	0.00681	0.02670	0.00857	0.00001	0.00100	0.00090	0.00050	0.00009	0.01000	0.02000	0.00000	0.00000	0.03149
	NPK for P2O5	2.46000	0.00554	0.00427	0.00357	0.00914	0.00260	0.00001	0.00060	0.00030	0.00010	0.00004	0.00400	0.00501	0.00000	0.00000	0.00945
	P2O5 - 1	655.00000	1.72000	1.27000	0.70000	2.50000	0.61300	0.00191	0.20000	0.07000	0.04000	0.00701	0.90000	1.00000	0.00001	0.00003	2.01701
	Potash	0.02340	0.00006	0.00005	0.00003	0.00010	0.00003	0.00000	0.00001	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	
	S as Nutrient	0.90700	0.00224	0.00176	0.00113	0.00398	0.00104	0.00000	0.00020	0.00010	0.00005	0.00001	0.00200	0.00200	0.00000	0.00000	0.00416
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.56800	0.00173	0.00144	0.00076	0.00233	0.00079	0.00000	0.00010	0.00010	0.00006	0.00001	0.00100	0.00200	0.00000	0.00000	0.00317

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Chromium (Adult)**

Climate Region	Product	soil conc (mg/kg)	fruit conc (mg/kg-DW)	above-ground vegetable conc (mg/kg-DW)	below-ground veg conc (mg/kg)	beef conc (mg/kg)	milk conc (mg/kg)	fish conc (mg/kg)	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
Memphis, TN	Boron	0.00017	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.02160	0.00009	0.00008	0.00003	0.00012	0.00004	0.00000	0.00001	0.00001	0.00000	0.00000	0.00007	0.00007	0.00000	0.00000	0.00015
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	8.72000	0.02570	0.02020	0.01010	0.03960	0.01340	0.00028	0.00200	0.00100	0.00070	0.00010	0.02000	0.02000	0.00000	0.00000	0.04180
	Micronutrients	0.04990	0.00016	0.00012	0.00007	0.00023	0.00007	0.00000	0.00001	0.00001	0.00000	0.00000	0.00020	0.00020	0.00000	0.00000	0.00042
	Mn	0.00145	0.00001	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
	NPK as N	0.80500	0.00320	0.00256	0.00111	0.00480	0.00160	0.00003	0.00020	0.00020	0.00010	0.00002	0.00201	0.00400	0.00000	0.00000	0.00633
	NPK for P2O5	0.46300	0.00153	0.00112	0.00059	0.00188	0.00058	0.00002	0.00010	0.00007	0.00003	0.00001	0.00080	0.00100	0.00000	0.00000	0.00191
	P2O5 - 1	121.00000	0.35800	0.25400	0.12100	0.45000	0.12100	0.00466	0.03000	0.02000	0.00800	0.00100	0.20000	0.20100	0.00002	0.00000	0.43000
	Potash	0.00394	0.00001	0.00001	0.00000	0.00002	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	S as Nutrient	0.16200	0.00051	0.00038	0.00019	0.00067	0.00020	0.00001	0.00004	0.00003	0.00001	0.00000	0.00030	0.00040	0.00000	0.00000	0.00074
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.10900	0.00042	0.00031	0.00015	0.00049	0.00015	0.00000	0.00003	0.00003	0.00001	0.00000	0.00020	0.00040	0.00000	0.00000	0.00064
	Miami, FL	Boron	0.00022	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.02650	0.00009	0.00008	0.00004	0.00013	0.00004	0.00000	0.00001	0.00001	0.00000	0.00000	0.00008	0.00008	0.00000	0.00017	
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		10.80000	0.02110	0.01970	0.01250	0.04610	0.01460	0.00020	0.00300	0.00100	0.00070	0.00020	0.02000	0.02000	0.00000	0.00000	0.04190
Micronutrients		0.06090	0.00014	0.00013	0.00009	0.00023	0.00008	0.00000	0.00002	0.00001	0.00000	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
Mn		0.00177	0.00001	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
NPK as N		1.00000	0.00284	0.00271	0.00138	0.00563	0.00184	0.00002	0.00030	0.00020	0.00010	0.00002	0.00300	0.00400	0.00000	0.00000	0.00732
NPK for P2O5		0.57600	0.00100	0.00085	0.00073	0.00192	0.00056	0.00001	0.00010	0.00004	0.00003	0.00001	0.00090	0.00090	0.00000	0.00000	0.00188
P2O5 - 1		150.00000	0.26800	0.23800	0.15000	0.46800	0.11400	0.00319	0.03010	0.01000	0.00700	0.00200	0.20000	0.20000	0.00001	0.00000	0.41900
Potash		0.00487	0.00001	0.00001	0.00001	0.00002	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
S as Nutrient		0.20100	0.00041	0.00034	0.00024	0.00074	0.00020	0.00000	0.00005	0.00002	0.00001	0.00000	0.00030	0.00040	0.00000	0.00000	0.00073
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		0.13600	0.00032	0.00030	0.00018	0.00049	0.00015	0.00000	0.00003	0.00002	0.00001	0.00000	0.00030	0.00040	0.00000	0.00000	0.00073
Minneapolis, MN		Boron	0.00048	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.06190	0.00026	0.00022	0.00010	0.00035	0.00012	0.00000	0.00002	0.00002	0.00001	0.00000	0.00020	0.00020	0.00000	0.00043	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	25.80000	0.07540	0.05870	0.02880	0.11700	0.03750	0.00025	0.00600	0.00400	0.00200	0.00040	0.06000	0.04010	0.00000	0.00000	0.10650
	Micronutrients	0.14700	0.00044	0.00035	0.00021	0.00060	0.00020	0.00000	0.00004	0.00003	0.00001	0.00000	0.00050	0.00050	0.00000	0.00000	0.00104
	Mn	0.00415	0.00002	0.00001	0.00001	0.00002	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00002	0.00001	0.00000	0.00000	0.00003
	NPK as N	2.45000	0.00964	0.00796	0.00341	0.01470	0.00479	0.00003	0.00060	0.00060	0.00030	0.00005	0.00702	0.01000	0.00000	0.00000	0.01797
	NPK for P2O5	1.26000	0.00442	0.00325	0.00176	0.00531	0.00159	0.00002	0.00030	0.00020	0.00008	0.00002	0.00201	0.00300	0.00000	0.00000	0.00531
	P2O5 - 1	370.00000	1.08000	0.81700	0.36100	1.37000	0.37500	0.00382	0.08010	0.05000	0.02000	0.00400	0.50000	0.70000	0.00002	0.00002	1.27400
	Potash	0.01200	0.00004	0.00003	0.00001	0.00006	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
	S as Nutrient	0.47900	0.00132	0.00106	0.00058	0.00199	0.00061	0.00001	0.00010	0.00008	0.00003	0.00001	0.00090	0.00100	0.00000	0.00000	0.00202
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.31300	0.00115	0.00086	0.00042	0.00132	0.00039	0.00000	0.00008	0.00007	0.00003	0.00001	0.00070	0.00100	0.00000	0.00000	0.00181

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Chromium (Adult)**

Climate Region	Product	soil conc (mg/kg)	fruit conc (mg/kg-DW)	above-ground vegetable conc (mg/kg-DW)	below-ground veg conc (mg/kg)	beef conc (mg/kg)	milk conc (mg/kg)	fish conc (mg/kg)	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
Philadelphia, PA	Boron	0.00024	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.02970	0.00011	0.00010	0.00005	0.00016	0.00005	0.00000	0.00001	0.00001	0.00000	0.00000	0.00009	0.00009	0.00000	0.00000	0.00019
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	12.10000	0.02850	0.02520	0.01390	0.05200	0.01670	0.00038	0.00300	0.00100	0.00080	0.00020	0.03000	0.02000	0.00000	0.00000	0.05200
	Micronutrients	0.06900	0.00017	0.00015	0.00010	0.00028	0.00008	0.00000	0.00002	0.00001	0.00000	0.00000	0.00020	0.00020	0.00000	0.00000	0.00042
	Mn	0.00200	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
	NPK as N	1.11000	0.00353	0.00319	0.00154	0.00647	0.00209	0.00005	0.00030	0.00020	0.00010	0.00002	0.00301	0.00500	0.00000	0.00000	0.00833
	NPK for P2O5	0.64100	0.00140	0.00122	0.00081	0.00231	0.00063	0.00002	0.00010	0.00006	0.00003	0.00001	0.00100	0.00100	0.00000	0.00000	0.00210
	P2O5 - 1	167.00000	0.36100	0.32800	0.16700	0.57000	0.15300	0.00630	0.04000	0.01010	0.00900	0.00200	0.20000	0.30000	0.00002	0.00001	0.52110
	Potash	0.00545	0.00001	0.00001	0.00001	0.00002	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	S as Nutrient	0.22400	0.00050	0.00040	0.00026	0.00088	0.00024	0.00001	0.00005	0.00003	0.00001	0.00000	0.00040	0.00050	0.00000	0.00000	0.00094
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.15100	0.00043	0.00037	0.00020	0.00059	0.00018	0.00000	0.00004	0.00003	0.00001	0.00000	0.00030	0.00050	0.00000	0.00000	0.00084
	Phoenix, AZ	Boron	0.00129	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000
		Gypsum Products	0.20400	0.00068	0.00064	0.00033	0.00138	0.00052	0.00000	0.00005	0.00005	0.00003	0.00001	0.00080	0.00080	0.00000	0.00169
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		89.10000	0.20300	0.18800	0.12500	0.43600	0.12800	0.00038	0.02000	0.01000	0.00600	0.00101	0.20000	0.20000	0.00000	0.00000	0.41701
Micronutrients		0.45300	0.00114	0.00108	0.00079	0.00307	0.00119	0.00000	0.00010	0.00006	0.00004	0.00001	0.00200	0.00200	0.00000	0.00000	0.00411
Mn		0.01220	0.00004	0.00004	0.00002	0.00008	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00005	0.00005	0.00000	0.00000	0.00011
NPK as N		10.40000	0.02500	0.02290	0.01360	0.05010	0.01750	0.00005	0.00300	0.00101	0.00080	0.00020	0.03000	0.03010	0.00000	0.00000	0.06211
NPK for P2O5		5.39000	0.01010	0.00903	0.00718	0.01890	0.00457	0.00002	0.00100	0.00050	0.00030	0.00007	0.01000	0.00900	0.00000	0.00000	0.01987
P2O5 - 1		1340.00000	2.61000	2.21000	1.38000	4.57000	1.11000	0.00466	0.30100	0.10000	0.07000	0.01000	2.00000	2.00000	0.00002	0.00005	4.18000
Potash		0.04490	0.00009	0.00008	0.00006	0.00019	0.00005	0.00000	0.00001	0.00000	0.00000	0.00000	0.00009	0.00009	0.00000	0.00000	0.00019
S as Nutrient		1.86000	0.00403	0.00383	0.00236	0.00753	0.00228	0.00001	0.00050	0.00020	0.00010	0.00003	0.00300	0.00401	0.00000	0.00000	0.00734
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.02000	0.00294	0.00278	0.00155	0.00571	0.00218	0.00000	0.00030	0.00020	0.00010	0.00003	0.00300	0.00500	0.00000	0.00000	0.00833
Portland, ME		Boron	0.00017	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.02150	0.00009	0.00008	0.00003	0.00012	0.00004	0.00000	0.00001	0.00001	0.00000	0.00000	0.00007	0.00007	0.00000	0.00015
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	8.70000	0.02400	0.01900	0.01010	0.03810	0.01260	0.00030	0.00200	0.00100	0.00070	0.00010	0.02000	0.01010	0.00000	0.00000	0.03190
	Micronutrients	0.04970	0.00015	0.00012	0.00007	0.00021	0.00007	0.00000	0.00001	0.00001	0.00000	0.00000	0.00020	0.00020	0.00000	0.00000	0.00042
	Mn	0.00144	0.00001	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001	
	NPK as N	0.80300	0.00314	0.00252	0.00111	0.00476	0.00152	0.00004	0.00020	0.00020	0.00009	0.00002	0.00201	0.00301	0.00000	0.00533	
	NPK for P2O5	0.46200	0.00123	0.00096	0.00059	0.00185	0.00054	0.00002	0.00010	0.00007	0.00003	0.00001	0.00080	0.00100	0.00000	0.00191	
	P2O5 - 1	120.00000	0.32200	0.26000	0.12000	0.43700	0.12100	0.00478	0.03000	0.02000	0.00700	0.00100	0.10100	0.20000	0.00002	0.00001	0.32900
	Potash	0.00393	0.00001	0.00001	0.00000	0.00002	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00002	
	S as Nutrient	0.16200	0.00044	0.00032	0.00019	0.00067	0.00019	0.00001	0.00004	0.00003	0.00001	0.00000	0.00030	0.00040	0.00000	0.00074	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.10900	0.00036	0.00029	0.00015	0.00047	0.00014	0.00000	0.00003	0.00003	0.00001	0.00000	0.00020	0.00040	0.00000	0.00064	

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Chromium (Adult)**

Climate Region	Product	soil conc (mg/kg)	fruit conc (mg/kg-DW)	above-ground vegetable conc (mg/kg-DW)	below-ground veg conc (mg/kg)	beef conc (mg/kg)	milk conc (mg/kg)	fish conc (mg/kg)	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
Raleigh-Durham, NC	Boron	0.00024	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.02980	0.00013	0.00010	0.00005	0.00017	0.00006	0.00000	0.00001	0.00001	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	12.10000	0.04460	0.03010	0.01390	0.05660	0.02020	0.00034	0.00300	0.00200	0.00100	0.00020	0.03000	0.02000	0.00000	0.00000	0.05320
	Micronutrients	0.06900	0.00024	0.00018	0.00010	0.00031	0.00010	0.00000	0.00002	0.00001	0.00001	0.00000	0.00030	0.00020	0.00000	0.00000	0.00052
	Mn	0.00200	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
	NPK as N	1.12000	0.00477	0.00384	0.00154	0.00671	0.00212	0.00004	0.00030	0.00030	0.00010	0.00002	0.00301	0.00500	0.00000	0.00000	0.00843
	NPK for P2O5	0.64200	0.00238	0.00158	0.00082	0.00297	0.00084	0.00002	0.00010	0.00010	0.00004	0.00001	0.00100	0.00101	0.00000	0.00000	0.00216
	P2O5 - 1	167.00000	0.58300	0.42000	0.16700	0.63900	0.18600	0.00531	0.04000	0.02000	0.01000	0.00200	0.20000	0.40000	0.00002	0.00001	0.63200
	Potash	0.00545	0.00002	0.00001	0.00001	0.00003	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	S as Nutrient	0.22500	0.00078	0.00057	0.00026	0.00103	0.00032	0.00001	0.00005	0.00005	0.00002	0.00000	0.00050	0.00060	0.00000	0.00000	0.00117
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.15100	0.00058	0.00043	0.00020	0.00067	0.00020	0.00000	0.00004	0.00004	0.00002	0.00000	0.00040	0.00050	0.00000	0.00000	0.00096
	Salem, OR	Boron	0.00026	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.03180	0.00011	0.00010	0.00005	0.00017	0.00006	0.00000	0.00001	0.00001	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		12.90000	0.02970	0.02590	0.01490	0.05550	0.01790	0.00043	0.00300	0.00101	0.00090	0.00020	0.03000	0.02000	0.00000	0.00000	0.05211
Micronutrients		0.07390	0.00018	0.00016	0.00010	0.00030	0.00009	0.00000	0.00002	0.00001	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00042
Mn		0.00214	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
NPK as N		1.19000	0.00379	0.00335	0.00165	0.00694	0.00226	0.00005	0.00030	0.00020	0.00010	0.00003	0.00301	0.00500	0.00000	0.00000	0.00834
NPK for P2O5		0.68800	0.00164	0.00141	0.00087	0.00244	0.00070	0.00003	0.00020	0.00007	0.00003	0.00001	0.00100	0.00100	0.00000	0.00000	0.00211
P2O5 - 1		179.00000	0.36500	0.33400	0.17800	0.60400	0.15800	0.00696	0.04000	0.01010	0.00901	0.00200	0.20000	0.30000	0.00003	0.00001	0.52111
Potash		0.00585	0.00001	0.00001	0.00001	0.00003	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
S as Nutrient		0.24100	0.00054	0.00043	0.00028	0.00092	0.00026	0.00001	0.00006	0.00003	0.00001	0.00000	0.00040	0.00050	0.00000	0.00000	0.00094
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.16200	0.00044	0.00039	0.00022	0.00063	0.00019	0.00001	0.00004	0.00003	0.00002	0.00000	0.00030	0.00050	0.00000	0.00000	0.00086
Salt Lake City, UT		Boron	0.00139	0.00001	0.00001	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000
	Gypsum Products	0.22700	0.00088	0.00077	0.00037	0.00156	0.00057	0.00000	0.00006	0.00006	0.00003	0.00001	0.00090	0.00100	0.00000	0.00000	0.00200
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	94.30000	0.27600	0.23700	0.14500	0.46800	0.13500	0.00047	0.02000	0.02000	0.00800	0.00200	0.20100	0.20000	0.00000	0.00001	0.43100
	Micronutrients	0.47500	0.00157	0.00134	0.00085	0.00367	0.00139	0.00000	0.00010	0.00009	0.00005	0.00001	0.00200	0.00200	0.00000	0.00000	0.00415
	Mn	0.01280	0.00005	0.00004	0.00002	0.00009	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00007	0.00006	0.00000	0.00000	0.00014
	NPK as N	10.90000	0.03230	0.02880	0.01480	0.05640	0.01980	0.00006	0.00300	0.00200	0.00100	0.00020	0.03010	0.04000	0.00000	0.00000	0.07330
	NPK for P2O5	5.76000	0.01470	0.01090	0.00741	0.02110	0.00599	0.00003	0.00100	0.00070	0.00040	0.00007	0.01000	0.01000	0.00000	0.00000	0.02117
	P2O5 - 1	1510.00000	3.71000	2.68000	1.60000	5.33000	1.41000	0.00529	0.40000	0.20000	0.09010	0.01010	2.00000	3.00000	0.00002	0.00008	5.30020
	Potash	0.04810	0.00013	0.00010	0.00006	0.00022	0.00006	0.00000	0.00001	0.00001	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	S as Nutrient	2.00000	0.00573	0.00472	0.00255	0.00877	0.00272	0.00001	0.00050	0.00030	0.00010	0.00003	0.00400	0.00600	0.00000	0.00000	0.01043
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	1.10000	0.00400	0.00357	0.00167	0.00713	0.00254	0.00001	0.00030	0.00030	0.00010	0.00003	0.00300	0.00700	0.00000	0.00000	0.01043

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Chromium (Adult)**

Climate Region	Product	soil conc (mg/kg)	fruit conc (mg/kg-DW)	above-ground vegetable conc (mg/kg-DW)	below-ground veg conc (mg/kg)	beef conc (mg/kg)	milk conc (mg/kg)	fish conc (mg/kg)	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
San Francisco, CA	Boron	0.00087	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	Gypsum Products	0.12400	0.00041	0.00037	0.00020	0.00064	0.00024	0.00000	0.00003	0.00003	0.00001	0.00000	0.00040	0.00040	0.00000	0.00000	0.00084
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	51.50000	0.12200	0.10100	0.06440	0.23400	0.07310	0.00014	0.01000	0.00601	0.00301	0.00080	0.10000	0.08010	0.00000	0.00001	0.18992
	Micronutrients	0.28200	0.00073	0.00065	0.00042	0.00127	0.00045	0.00000	0.00007	0.00004	0.00002	0.00001	0.00100	0.00090	0.00000	0.00000	0.00197
	Mn	0.00794	0.00002	0.00002	0.00001	0.00005	0.00002	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
	NPK as N	5.31000	0.01570	0.01410	0.00781	0.03010	0.00897	0.00002	0.00100	0.00080	0.00050	0.00010	0.01010	0.02000	0.00000	0.00000	0.03150
	NPK for P2O5	2.92000	0.00647	0.00512	0.00396	0.01040	0.00287	0.00001	0.00070	0.00030	0.00020	0.00004	0.00500	0.00501	0.00000	0.00000	0.01055
	P2O5 - 1	779.00000	1.59000	1.35000	0.82300	2.82000	0.69000	0.00230	0.20000	0.06010	0.04010	0.00801	1.00000	1.00000	0.00001	0.00008	2.10821
	Potash	0.02640	0.00006	0.00005	0.00003	0.00011	0.00003	0.00000	0.00001	0.00000	0.00000	0.00000	0.00005	0.00005	0.00000	0.00000	0.00010
	S as Nutrient	1.02000	0.00239	0.00206	0.00131	0.00432	0.00109	0.00000	0.00020	0.00010	0.00006	0.00001	0.00200	0.00200	0.00000	0.00000	0.00417
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.62400	0.00171	0.00154	0.00087	0.00255	0.00085	0.00000	0.00020	0.00010	0.00006	0.00002	0.00100	0.00200	0.00000	0.00000	0.00318
	Winnemucca, NV	Boron	0.00112	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000
Gypsum Products		0.16500	0.00051	0.00050	0.00027	0.00099	0.00037	0.00000	0.00004	0.00003	0.00002	0.00001	0.00050	0.00060	0.00000	0.00000	0.00116
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		71.30000	0.14400	0.13900	0.09880	0.32900	0.09760	0.00020	0.02000	0.00800	0.00500	0.00100	0.20000	0.10000	0.00000	0.00000	0.31400
Micronutrients		0.37700	0.00086	0.00084	0.00060	0.00217	0.00078	0.00000	0.00010	0.00004	0.00003	0.00001	0.00100	0.00100	0.00000	0.00000	0.00208
Mn		0.01010	0.00003	0.00003	0.00001	0.00006	0.00002	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00008
NPK as N		7.54000	0.01870	0.01820	0.01100	0.03930	0.01300	0.00002	0.00200	0.00100	0.00070	0.00010	0.02010	0.02000	0.00000	0.00000	0.04190
NPK for P2O5		3.87000	0.00727	0.00707	0.00550	0.01460	0.00382	0.00001	0.00090	0.00030	0.00020	0.00006	0.00700	0.00602	0.00000	0.00000	0.01358
P2O5 - 1		1050.00000	1.68000	1.56000	1.18000	3.55000	0.84100	0.00309	0.20100	0.07010	0.05000	0.01000	1.00000	2.00000	0.00001	0.00005	3.13010
Potash		0.03650	0.00006	0.00006	0.00004	0.00015	0.00004	0.00000	0.00001	0.00000	0.00000	0.00000	0.00007	0.00007	0.00000	0.00000	0.00014
S as Nutrient		1.46000	0.00289	0.00276	0.00183	0.00534	0.00147	0.00000	0.00040	0.00010	0.00008	0.00002	0.00300	0.00300	0.00000	0.00000	0.00620
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.84700	0.00211	0.00208	0.00117	0.00381	0.00147	0.00000	0.00020	0.00010	0.00008	0.00002	0.00200	0.00301	0.00000	0.00000	0.00521

¹ All Indirect Pathways Combined includes Fruit, Vegetable, Below-ground Vegetable, Beef, and Milk Ingestion.

Numbers less than 0.00001 appear as a default of 0.00000.