

US EPA ARCHIVE DOCUMENT

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Cadmium (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	0.00086	0.00201	0.00201	0.00080	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054
	Gypsum Products	0.38800	0.62100	0.62100	0.31900	0.00230	0.00022	0.00023	0.00030	0.10000	0.07010	0.01000	0.00100	0.00030	0.00001	0.00000	0.18140
	Iron	1.68000	2.75000	2.75000	1.80000	0.00981	0.00094	0.00099	0.00100	0.40100	0.30100	0.07000	0.00401	0.00100	0.00003	0.00000	0.77701
	Liming Materials	2.25000	3.31000	3.31000	1.31000	0.01190	0.00114	0.00113	0.00200	0.50000	0.40000	0.05010	0.00400	0.00100	0.00003	0.00000	0.95510
	Micronutrients	0.06170	0.08920	0.08920	0.05110	0.00039	0.00004	0.00004	0.00005	0.02000	0.01000	0.00200	0.00010	0.00004	0.00000	0.00000	0.03214
	Mn	0.00470	0.00757	0.00757	0.00326	0.00002	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211
	NPK as N	1.01000	1.46000	1.46000	0.59000	0.00434	0.00041	0.00054	0.00070	0.20000	0.20000	0.02000	0.00200	0.00060	0.00001	0.00000	0.42260
	NPK for P2O5	2.37000	2.48000	2.47000	1.73000	0.00955	0.00091	0.00104	0.00200	0.30100	0.20000	0.04010	0.00300	0.00080	0.00002	0.00000	0.54490
	P2O5 - 1	1.90000	3.02000	3.01000	1.25000	0.00865	0.00083	0.00096	0.00100	0.50000	0.40000	0.05000	0.00400	0.00100	0.00002	0.00000	0.95500
	Potash	0.01630	0.02740	0.02730	0.01580	0.00011	0.00001	0.00001	0.00001	0.00500	0.00301	0.00060	0.00005	0.00001	0.00000	0.00000	0.00867
	S as Nutrient	1.43000	2.16000	2.16000	0.90300	0.00602	0.00058	0.00073	0.00100	0.30000	0.20000	0.03000	0.00200	0.00070	0.00001	0.00000	0.53270
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	1.70000	2.42000	2.42000	1.02000	0.00510	0.00049	0.00076	0.00100	0.20000	0.20000	0.03010	0.00200	0.00040	0.00002	0.00000	0.43250
	Albuquerque, NM	Boron	0.00089	0.00211	0.00211	0.00096	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00005	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.42900	0.68800	0.68800	0.39300	0.00237	0.00023	0.00006	0.00030	0.10000	0.08000	0.01000	0.00100	0.00030	0.00000	0.00000	0.19130
Iron		1.81000	3.36000	3.36000	1.79000	0.01060	0.00101	0.00026	0.00100	0.50000	0.40000	0.08010	0.00501	0.00100	0.00001	0.00000	0.98611
Liming Materials		2.54000	4.03000	4.03000	1.48000	0.01270	0.00122	0.00034	0.00200	0.50100	0.40100	0.07000	0.00500	0.00100	0.00001	0.00000	0.97800
Micronutrients		0.06370	0.10200	0.10200	0.06010	0.00043	0.00004	0.00001	0.00005	0.02000	0.01000	0.00200	0.00020	0.00005	0.00000	0.00000	0.03225
Mn		0.00496	0.00807	0.00807	0.00386	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
NPK as N		1.07000	1.64000	1.64000	0.78800	0.00506	0.00047	0.00016	0.00080	0.20100	0.20000	0.03000	0.00300	0.00070	0.00000	0.00000	0.43470
NPK for P2O5		2.74000	2.69000	2.69000	2.08000	0.01040	0.00099	0.00035	0.00200	0.40000	0.30000	0.04020	0.00301	0.00080	0.00001	0.00000	0.74401
P2O5 - 1		2.03000	3.39000	3.39000	1.42000	0.01010	0.00097	0.00029	0.00101	0.60000	0.40000	0.06000	0.00400	0.00100	0.00001	0.00000	1.06500
Potash		0.01740	0.02860	0.02860	0.01720	0.00012	0.00001	0.00000	0.00001	0.00500	0.00400	0.00070	0.00007	0.00002	0.00000	0.00000	0.00979
S as Nutrient		1.54000	2.61000	2.61000	1.06000	0.00661	0.00063	0.00022	0.00100	0.30000	0.20000	0.04000	0.00200	0.00070	0.00001	0.00000	0.54270
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		1.76000	2.59000	2.59000	1.21000	0.00655	0.00063	0.00022	0.00100	0.30000	0.30000	0.04010	0.00200	0.00060	0.00001	0.00000	0.64270
Atlanta, GA		Boron	0.00083	0.00200	0.00199	0.00076	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.37700	0.57500	0.57500	0.29200	0.00208	0.00020	0.00014	0.00030	0.10000	0.07000	0.01000	0.00100	0.00030	0.00000	0.00000	0.18130
	Iron	1.60000	2.61000	2.61000	1.70000	0.00930	0.00089	0.00061	0.00100	0.40000	0.30100	0.06010	0.00400	0.00090	0.00002	0.00000	0.76600
	Liming Materials	2.20000	3.10000	3.09000	1.28000	0.01230	0.00117	0.00069	0.00200	0.50000	0.40000	0.05000	0.00400	0.00100	0.00002	0.00000	0.95500
	Micronutrients	0.06010	0.08790	0.08780	0.04680	0.00032	0.00003	0.00002	0.00005	0.02000	0.01000	0.00200	0.00010	0.00003	0.00000	0.00000	0.03213
	Mn	0.00445	0.00755	0.00755	0.00311	0.00002	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211
	NPK as N	0.98700	1.42000	1.42000	0.58000	0.00434	0.00040	0.00034	0.00070	0.20000	0.20000	0.02000	0.00200	0.00060	0.00001	0.00000	0.42260
	NPK for P2O5	2.26000	2.44000	2.44000	1.67000	0.00889	0.00085	0.00063	0.00200	0.30100	0.20000	0.04000	0.00300	0.00080	0.00001	0.00000	0.54480
	P2O5 - 1	1.84000	2.86000	2.86000	1.22000	0.00859	0.00082	0.00060	0.00100	0.50000	0.40000	0.04010	0.00400	0.00100	0.00001	0.00000	0.94510
	Potash	0.01550	0.02500	0.02500	0.01570	0.00010	0.00001	0.00001	0.00001	0.00400	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00766
	S as Nutrient	1.41000	2.01000	2.01000	0.86900	0.00573	0.00055	0.00044	0.00100	0.30000	0.10100	0.03000	0.00200	0.00070	0.00001	0.00000	0.43370
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	1.63000	2.41000	2.41000	0.97500	0.00481	0.00046	0.00048	0.00100	0.20000	0.20000	0.03010	0.00200	0.00040	0.00001	0.00000	0.43250

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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	0.00089	0.00204	0.00204	0.00088	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00005	0.00000	0.00000	0.00000	0.00000	0.00075	
	Gypsum Products	0.39800	0.63900	0.63900	0.34100	0.00235	0.00023	0.00009	0.00030	0.10000	0.08000	0.01000	0.00100	0.00030	0.00000	0.00000	0.19130	
	Iron	1.79000	3.05000	3.05000	1.86000	0.01010	0.00097	0.00036	0.00100	0.50000	0.40000	0.08000	0.00500	0.00100	0.00001	0.00000	0.98600	
	Liming Materials	2.48000	3.58000	3.58000	1.36000	0.01230	0.00118	0.00052	0.00200	0.50000	0.40000	0.05010	0.00500	0.00100	0.00002	0.00000	0.95610	
	Micronutrients	0.06320	0.09410	0.09410	0.05380	0.00043	0.00004	0.00001	0.00005	0.02000	0.01000	0.00200	0.00010	0.00004	0.00000	0.00000	0.03214	
	Mn	0.00492	0.00785	0.00785	0.00351	0.00002	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
	NPK as N	1.07000	1.56000	1.56000	0.64700	0.00465	0.00044	0.00021	0.00080	0.20000	0.20000	0.02010	0.00200	0.00070	0.00001	0.00000	0.42280	
	NPK for P2O5	2.48000	2.47000	2.47000	1.90000	0.01000	0.00095	0.00049	0.00200	0.30100	0.20000	0.04010	0.00301	0.00080	0.00001	0.00000	0.54491	
	P2O5 - 1	1.95000	3.05000	3.05000	1.36000	0.00905	0.00086	0.00040	0.00101	0.60000	0.40000	0.05010	0.00400	0.00101	0.00001	0.00000	1.05511	
	Potash	0.01670	0.02670	0.02670	0.01710	0.00012	0.00001	0.00000	0.00001	0.00500	0.00301	0.00070	0.00006	0.00001	0.00000	0.00000	0.00878	
	S as Nutrient	1.48000	2.18000	2.18000	0.92100	0.00636	0.00061	0.00032	0.00100	0.30000	0.20000	0.03010	0.00200	0.00070	0.00001	0.00000	0.53280	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.72000	2.56000	2.56000	1.08000	0.00559	0.00054	0.00035	0.00100	0.20100	0.20000	0.04000	0.00200	0.00050	0.00001	0.00000	0.44350	
	Boise, ID	Boron	0.00091	0.00216	0.00216	0.00098	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00005	0.00000	0.00000	0.00000	0.00000	0.00076
		Gypsum Products	0.44200	0.69700	0.69700	0.41400	0.00248	0.00024	0.00010	0.00030	0.10000	0.08010	0.01000	0.00100	0.00040	0.00000	0.00000	0.19150
Iron		1.86000	3.25000	3.25000	1.93000	0.01060	0.00101	0.00046	0.00100	0.50000	0.50000	0.08010	0.00502	0.00100	0.00002	0.00000	1.08612	
Liming Materials		2.52000	4.18000	4.18000	1.50000	0.01360	0.00130	0.00057	0.00200	0.50000	0.40100	0.07000	0.00500	0.00100	0.00002	0.00000	0.97700	
Micronutrients		0.06520	0.10300	0.10300	0.06010	0.00048	0.00005	0.00002	0.00005	0.02000	0.01000	0.00200	0.00020	0.00005	0.00000	0.00000	0.03225	
Mn		0.00521	0.00835	0.00835	0.00386	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
NPK as N		1.12000	1.83000	1.83000	0.83100	0.00511	0.00048	0.00025	0.00080	0.20100	0.20000	0.03000	0.00300	0.00070	0.00001	0.00000	0.43470	
NPK for P2O5		2.78000	2.69000	2.69000	2.15000	0.01020	0.00097	0.00058	0.00200	0.40100	0.30000	0.04020	0.00400	0.00080	0.00001	0.00000	0.74600	
P2O5 - 1		2.11000	3.42000	3.42000	1.47000	0.01090	0.00104	0.00046	0.00200	0.60000	0.40100	0.06000	0.00400	0.00100	0.00001	0.00000	1.06600	
Potash		0.01800	0.02890	0.02890	0.01790	0.00012	0.00001	0.00000	0.00002	0.00500	0.00400	0.00070	0.00007	0.00002	0.00000	0.00000	0.00979	
S as Nutrient		1.58000	2.71000	2.71000	1.10000	0.00653	0.00062	0.00035	0.00100	0.30000	0.20000	0.04000	0.00200	0.00080	0.00001	0.00000	0.54280	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.80000	2.67000	2.67000	1.25000	0.00675	0.00065	0.00035	0.00100	0.30000	0.30000	0.04010	0.00200	0.00060	0.00001	0.00000	0.64270	
Boulder, CO		Boron	0.00089	0.00211	0.00211	0.00093	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00005	0.00000	0.00000	0.00000	0.00000	0.00076
		Gypsum Products	0.42500	0.66700	0.66700	0.37800	0.00249	0.00024	0.00015	0.00030	0.10000	0.08000	0.01000	0.00100	0.00030	0.00001	0.00000	0.19130
	Iron	1.87000	3.31000	3.31000	1.83000	0.01020	0.00098	0.00067	0.00100	0.50000	0.40000	0.08010	0.00501	0.00100	0.00002	0.00000	0.98611	
	Liming Materials	2.48000	4.02000	4.02000	1.45000	0.01280	0.00121	0.00078	0.00200	0.50000	0.40100	0.07000	0.00500	0.00100	0.00002	0.00000	0.97700	
	Micronutrients	0.06410	0.09790	0.09790	0.05630	0.00044	0.00004	0.00003	0.00005	0.02000	0.01000	0.00200	0.00020	0.00005	0.00000	0.00000	0.03225	
	Mn	0.00498	0.00823	0.00823	0.00381	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
	NPK as N	1.09000	1.69000	1.69000	0.77700	0.00507	0.00045	0.00033	0.00080	0.20000	0.20000	0.03000	0.00201	0.00070	0.00001	0.00000	0.43271	
	NPK for P2O5	2.84000	2.65000	2.65000	2.07000	0.01030	0.00099	0.00082	0.00200	0.40000	0.30000	0.05000	0.00400	0.00080	0.00001	0.00000	0.75480	
	P2O5 - 1	2.03000	3.41000	3.41000	1.48000	0.00944	0.00091	0.00065	0.00200	0.60000	0.40000	0.06000	0.00400	0.00100	0.00001	0.00000	1.06500	
	Potash	0.01730	0.02810	0.02810	0.01770	0.00012	0.00001	0.00001	0.00001	0.00500	0.00301	0.00070	0.00006	0.00002	0.00000	0.00000	0.00879	
	S as Nutrient	1.53000	2.58000	2.58000	1.02000	0.00685	0.00066	0.00050	0.00100	0.30000	0.20000	0.04000	0.00200	0.00070	0.00001	0.00000	0.54270	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.77000	2.57000	2.57000	1.17000	0.00671	0.00064	0.00049	0.00100	0.30000	0.30000	0.04010	0.00200	0.00060	0.00002	0.00000	0.64270	

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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	
Casper, WY	Boron	0.00088	0.00206	0.00205	0.00087	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00005	0.00000	0.00000	0.00000	0.00000	0.00076	
	Gypsum Products	0.40300	0.65700	0.65700	0.35300	0.00238	0.00023	0.00010	0.00030	0.10000	0.08000	0.01000	0.00100	0.00030	0.00000	0.00000	0.19130	
	Iron	1.80000	3.04000	3.04000	1.81000	0.00983	0.00094	0.00048	0.00100	0.50000	0.40000	0.08000	0.00500	0.00100	0.00002	0.00000	0.98600	
	Liming Materials	2.45000	3.89000	3.89000	1.36000	0.01190	0.00114	0.00061	0.00200	0.50000	0.40000	0.06000	0.00500	0.00100	0.00002	0.00000	0.96600	
	Micronutrients	0.06240	0.09760	0.09760	0.05800	0.00042	0.00004	0.00001	0.00005	0.02000	0.01000	0.00200	0.00010	0.00004	0.00000	0.00000	0.03214	
	Mn	0.00466	0.00793	0.00793	0.00357	0.00002	0.00000	0.00000	0.00200	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
	NPK as N	1.09000	1.58000	1.58000	0.74300	0.00498	0.00045	0.00027	0.00080	0.20000	0.20000	0.02010	0.00200	0.00070	0.00001	0.00000	0.42280	
	NPK for P2O5	2.55000	2.59000	2.59000	1.98000	0.00976	0.00093	0.00068	0.00200	0.40000	0.20000	0.04010	0.00301	0.00080	0.00001	0.00000	0.64391	
	P2O5 - 1	1.92000	3.23000	3.23000	1.35000	0.00916	0.00087	0.00047	0.00100	0.60000	0.40000	0.06000	0.00400	0.00100	0.00001	0.00000	1.06500	
	Potash	0.01690	0.02670	0.02670	0.01710	0.00011	0.00001	0.00000	0.00001	0.00500	0.00301	0.00070	0.00006	0.00001	0.00000	0.00000	0.00878	
	S as Nutrient	1.56000	2.34000	2.34000	0.98900	0.00657	0.00063	0.00037	0.00100	0.30000	0.20000	0.03010	0.00200	0.00080	0.00001	0.00000	0.53290	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.74000	2.55000	2.55000	1.10000	0.00632	0.00061	0.00042	0.00100	0.20100	0.20000	0.04000	0.00200	0.00050	0.00001	0.00000	0.44350	
	Charleston, SC	Boron	0.00082	0.00203	0.00203	0.00079	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054
		Gypsum Products	0.38600	0.57500	0.57500	0.29700	0.00212	0.00020	0.00029	0.00030	0.10000	0.07000	0.01000	0.00100	0.00030	0.00001	0.00000	0.18130
		Iron	1.67000	2.70000	2.70000	1.76000	0.00931	0.00089	0.00132	0.00100	0.40100	0.30100	0.06010	0.00401	0.00090	0.00004	0.00000	0.76701
Liming Materials		2.19000	3.14000	3.14000	1.28000	0.01230	0.00118	0.00166	0.00200	0.50000	0.40000	0.05000	0.00400	0.00100	0.00006	0.00000	0.95500	
Micronutrients		0.06020	0.08610	0.08610	0.04840	0.00033	0.00003	0.00004	0.00005	0.02000	0.01000	0.00200	0.00010	0.00003	0.00000	0.00000	0.03213	
Mn		0.00458	0.00774	0.00773	0.00317	0.00003	0.00000	0.00000	0.00100	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
NPK as N		1.01000	1.41000	1.41000	0.58900	0.00450	0.00040	0.00074	0.00070	0.20000	0.20000	0.02000	0.00200	0.00070	0.00002	0.00000	0.42270	
NPK for P2O5		2.27000	2.36000	2.36000	1.68000	0.00894	0.00086	0.00201	0.00200	0.30100	0.20000	0.04000	0.00300	0.00080	0.00002	0.00000	0.54480	
P2O5 - 1		1.86000	2.88000	2.88000	1.22000	0.00890	0.00085	0.00155	0.00100	0.50000	0.40000	0.05000	0.00400	0.00100	0.00004	0.00000	0.95500	
Potash		0.01550	0.02510	0.02510	0.01630	0.00010	0.00001	0.00001	0.00001	0.00401	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00767	
S as Nutrient		1.46000	2.06000	2.06000	0.88300	0.00574	0.00055	0.00099	0.00100	0.30000	0.20000	0.03000	0.00200	0.00060	0.00003	0.00000	0.53260	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.64000	2.44000	2.44000	0.96000	0.00482	0.00046	0.00112	0.00100	0.20000	0.20000	0.03010	0.00200	0.00040	0.00003	0.00000	0.43250	
Chicago, IL		Boron	0.00088	0.00206	0.00205	0.00085	0.00001	0.00000	0.00000	0.00000	0.00040	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00064
		Gypsum Products	0.40300	0.64700	0.64700	0.33300	0.00219	0.00021	0.00026	0.00030	0.10000	0.07010	0.01000	0.00100	0.00030	0.00001	0.00000	0.18140
		Iron	1.70000	2.83000	2.83000	1.90000	0.00996	0.00095	0.00110	0.00100	0.50000	0.30100	0.07010	0.00401	0.00100	0.00004	0.00000	0.87611
	Liming Materials	2.33000	3.59000	3.59000	1.35000	0.01280	0.00122	0.00150	0.00200	0.50000	0.40000	0.05010	0.00400	0.00100	0.00005	0.00000	0.95510	
	Micronutrients	0.06200	0.08930	0.08920	0.05080	0.00040	0.00004	0.00004	0.00005	0.02000	0.01000	0.00200	0.00010	0.00004	0.00000	0.00000	0.03214	
	Mn	0.00487	0.00794	0.00793	0.00340	0.00003	0.00000	0.00000	0.00100	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
	NPK as N	1.04000	1.53000	1.53000	0.62000	0.00467	0.00043	0.00066	0.00080	0.20000	0.20000	0.02000	0.00200	0.00060	0.00002	0.00000	0.42260	
	NPK for P2O5	2.39000	2.44000	2.43000	1.75000	0.00975	0.00093	0.00154	0.00200	0.30100	0.20000	0.04010	0.00301	0.00080	0.00003	0.00000	0.54491	
	P2O5 - 1	1.98000	3.11000	3.11000	1.29000	0.00930	0.00089	0.00117	0.00101	0.50000	0.40000	0.05000	0.00400	0.00100	0.00003	0.00000	0.95500	
	Potash	0.01640	0.02640	0.02630	0.01640	0.00011	0.00001	0.00001	0.00001	0.00500	0.00301	0.00070	0.00006	0.00001	0.00000	0.00000	0.00878	
	S as Nutrient	1.51000	2.17000	2.17000	0.95200	0.00606	0.00058	0.00091	0.00100	0.30000	0.20000	0.03000	0.00200	0.00080	0.00002	0.00000	0.53280	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.74000	2.45000	2.45000	1.06000	0.00534	0.00051	0.00091	0.00100	0.20000	0.20000	0.04000	0.00200	0.00050	0.00003	0.00000	0.44250	

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Cadmium (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	0.00088	0.00215	0.00215	0.00084	0.00001	0.00000	0.00000	0.00000	0.00040	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00064	
	Gypsum Products	0.40400	0.62400	0.62300	0.33200	0.00223	0.00021	0.00024	0.00030	0.10000	0.07010	0.01000	0.00100	0.00030	0.00001	0.00000	0.18140	
	Iron	1.69000	2.79000	2.79000	1.81000	0.00952	0.00091	0.00112	0.00100	0.40100	0.40000	0.07000	0.00401	0.00100	0.00004	0.00000	0.87601	
	Liming Materials	2.34000	3.55000	3.54000	1.36000	0.01230	0.00118	0.00135	0.00200	0.50000	0.40000	0.05010	0.00400	0.00100	0.00006	0.00000	0.95510	
	Micronutrients	0.06380	0.09250	0.09250	0.05130	0.00040	0.00004	0.00004	0.00005	0.02000	0.01000	0.00200	0.00010	0.00004	0.00000	0.00000	0.03214	
	Mn	0.00488	0.00790	0.00789	0.00344	0.00003	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
	NPK as N	1.07000	1.47000	1.47000	0.61900	0.00467	0.00043	0.00059	0.00080	0.20000	0.20000	0.02000	0.00200	0.00070	0.00002	0.00000	0.42270	
	NPK for P2O5	2.48000	2.47000	2.46000	1.68000	0.00935	0.00089	0.00146	0.00200	0.40000	0.20000	0.04010	0.00300	0.00080	0.00002	0.00000	0.64390	
	P2O5 - 1	1.98000	3.08000	3.08000	1.26000	0.00928	0.00089	0.00112	0.00100	0.50000	0.40100	0.05000	0.00400	0.00100	0.00003	0.00000	0.95600	
	Potash	0.01640	0.02700	0.02700	0.01550	0.00011	0.00001	0.00001	0.00001	0.00500	0.00301	0.00070	0.00006	0.00001	0.00000	0.00000	0.00878	
	S as Nutrient	1.53000	2.07000	2.07000	0.94100	0.00617	0.00059	0.00087	0.00100	0.30000	0.20000	0.03000	0.00200	0.00070	0.00002	0.00000	0.53270	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.75000	2.55000	2.55000	1.03000	0.00520	0.00050	0.00086	0.00100	0.20100	0.20000	0.04000	0.00200	0.00050	0.00003	0.00000	0.44350	
	Fresno, CA	Boron	0.00089	0.00211	0.00211	0.00096	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00005	0.00000	0.00000	0.00000	0.00000	0.00076
		Gypsum Products	0.42500	0.67400	0.67300	0.39100	0.00237	0.00023	0.00009	0.00030	0.10000	0.08010	0.01000	0.00100	0.00040	0.00000	0.00000	0.19150
Iron		1.81000	3.29000	3.29000	1.83000	0.01030	0.00098	0.00037	0.00100	0.50000	0.40000	0.08010	0.00501	0.00100	0.00002	0.00000	0.98611	
Liming Materials		2.51000	4.07000	4.07000	1.48000	0.01320	0.00126	0.00048	0.00200	0.50100	0.40100	0.07000	0.00401	0.00100	0.00002	0.00000	0.97701	
Micronutrients		0.06370	0.10200	0.10200	0.05840	0.00044	0.00004	0.00001	0.00005	0.02000	0.01000	0.00200	0.00020	0.00005	0.00000	0.00000	0.03225	
Mn		0.00505	0.00807	0.00807	0.00386	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
NPK as N		1.08000	1.77000	1.77000	0.78400	0.00506	0.00047	0.00023	0.00080	0.20100	0.20000	0.03000	0.00300	0.00070	0.00001	0.00000	0.43470	
NPK for P2O5		2.66000	2.60000	2.60000	2.07000	0.01040	0.00099	0.00051	0.00200	0.40000	0.20100	0.04010	0.00301	0.00080	0.00001	0.00000	0.64491	
P2O5 - 1		2.02000	3.30000	3.30000	1.48000	0.01020	0.00099	0.00042	0.00200	0.60000	0.40000	0.06000	0.00400	0.00100	0.00001	0.00000	1.06500	
Potash		0.01740	0.02860	0.02860	0.01860	0.00012	0.00001	0.00000	0.00001	0.00500	0.00400	0.00070	0.00006	0.00002	0.00000	0.00000	0.00978	
S as Nutrient		1.56000	2.57000	2.57000	1.06000	0.00647	0.00062	0.00032	0.00100	0.30000	0.20000	0.04000	0.00200	0.00080	0.00001	0.00000	0.54280	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.74000	2.58000	2.58000	1.24000	0.00676	0.00065	0.00032	0.00100	0.30000	0.20100	0.04000	0.00200	0.00060	0.00001	0.00000	0.54360	
Grand Island, NE		Boron	0.00089	0.00214	0.00214	0.00091	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00005	0.00000	0.00000	0.00000	0.00000	0.00075
		Gypsum Products	0.40900	0.66100	0.66100	0.36000	0.00241	0.00023	0.00026	0.00030	0.10000	0.08000	0.01000	0.00100	0.00030	0.00001	0.00000	0.19130
	Iron	1.80000	3.15000	3.15000	1.80000	0.01050	0.00100	0.00106	0.00100	0.50000	0.40000	0.08000	0.00500	0.00100	0.00004	0.00000	0.98600	
	Liming Materials	2.50000	3.84000	3.84000	1.38000	0.01280	0.00122	0.00150	0.00200	0.50000	0.40000	0.05010	0.00500	0.00100	0.00006	0.00000	0.95610	
	Micronutrients	0.06400	0.10100	0.10100	0.05590	0.00043	0.00004	0.00004	0.00005	0.02000	0.01000	0.00200	0.00020	0.00005	0.00000	0.00000	0.03225	
	Mn	0.00492	0.00795	0.00795	0.00366	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
	NPK as N	1.10000	1.56000	1.56000	0.65200	0.00497	0.00044	0.00060	0.00080	0.20000	0.20000	0.02010	0.00201	0.00070	0.00002	0.00000	0.42281	
	NPK for P2O5	2.53000	2.63000	2.63000	1.90000	0.01030	0.00098	0.00155	0.00200	0.30100	0.20000	0.04010	0.00301	0.00080	0.00002	0.00000	0.54491	
	P2O5 - 1	2.01000	3.15000	3.15000	1.50000	0.00938	0.00090	0.00119	0.00200	0.60000	0.40100	0.06000	0.00400	0.00101	0.00004	0.00000	1.06601	
	Potash	0.01730	0.02820	0.02820	0.01820	0.00011	0.00001	0.00001	0.00001	0.00500	0.00301	0.00070	0.00006	0.00001	0.00000	0.00000	0.00878	
	S as Nutrient	1.55000	2.26000	2.26000	1.00000	0.00627	0.00060	0.00093	0.00100	0.30000	0.20000	0.03010	0.00200	0.00070	0.00003	0.00000	0.53280	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.72000	2.42000	2.42000	1.08000	0.00619	0.00059	0.00097	0.00100	0.20100	0.20100	0.04000	0.00200	0.00050	0.00003	0.00000	0.44450	

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Cadmium (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	0.00086	0.00207	0.00207	0.00083	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054	
	Gypsum Products	0.39700	0.61800	0.61800	0.30500	0.00228	0.00022	0.00025	0.00030	0.10000	0.07000	0.01000	0.00100	0.00030	0.00001	0.00000	0.18130	
	Iron	1.69000	2.80000	2.80000	1.73000	0.00970	0.00093	0.00119	0.00100	0.40100	0.40000	0.06010	0.00401	0.00100	0.00004	0.00000	0.86611	
	Liming Materials	2.25000	3.26000	3.26000	1.33000	0.01280	0.00122	0.00151	0.00200	0.50000	0.40000	0.05010	0.00400	0.00100	0.00005	0.00000	0.95510	
	Micronutrients	0.06230	0.09240	0.09240	0.05060	0.00037	0.00004	0.00004	0.00005	0.02000	0.01000	0.00200	0.00010	0.00004	0.00000	0.00000	0.03214	
	Mn	0.00472	0.00784	0.00784	0.00326	0.00003	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
	NPK as N	1.05000	1.49000	1.49000	0.60700	0.00465	0.00044	0.00064	0.00080	0.20000	0.20000	0.02000	0.00200	0.00070	0.00002	0.00000	0.42270	
	NPK for P2O5	2.43000	2.46000	2.46000	1.77000	0.00947	0.00090	0.00146	0.00200	0.40000	0.20000	0.04010	0.00300	0.00080	0.00002	0.00000	0.64390	
	P2O5 - 1	1.95000	3.13000	3.13000	1.26000	0.00875	0.00084	0.00113	0.00100	0.50000	0.40000	0.05000	0.00400	0.00100	0.00003	0.00000	0.95500	
	Potash	0.01610	0.02720	0.02720	0.01630	0.00011	0.00001	0.00001	0.00001	0.00500	0.00301	0.00060	0.00005	0.00001	0.00000	0.00000	0.00867	
	S as Nutrient	1.49000	2.08000	2.08000	0.91800	0.00596	0.00057	0.00088	0.00100	0.30000	0.20000	0.03000	0.00200	0.00070	0.00002	0.00000	0.53270	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.73000	2.48000	2.48000	0.99800	0.00499	0.00048	0.00094	0.00100	0.20000	0.20000	0.03010	0.00200	0.00050	0.00003	0.00000	0.43260	
	Hartford, CT	Boron	0.00085	0.00207	0.00207	0.00080	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054
		Gypsum Products	0.38900	0.59600	0.59600	0.30100	0.00212	0.00020	0.00025	0.00030	0.10000	0.07000	0.01000	0.00100	0.00030	0.00001	0.00000	0.18130
		Iron	1.66000	2.70000	2.70000	1.72000	0.00924	0.00088	0.00122	0.00100	0.40100	0.30100	0.06010	0.00401	0.00100	0.00004	0.00000	0.76711
Liming Materials		2.23000	3.36000	3.36000	1.34000	0.01190	0.00114	0.00146	0.00200	0.50000	0.40000	0.05010	0.00400	0.00100	0.00005	0.00000	0.95510	
Micronutrients		0.06030	0.08800	0.08800	0.04840	0.00034	0.00003	0.00004	0.00005	0.02000	0.01000	0.00200	0.00010	0.00003	0.00000	0.00000	0.03213	
Mn		0.00466	0.00757	0.00757	0.00320	0.00003	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
NPK as N		1.01000	1.47000	1.47000	0.58400	0.00451	0.00043	0.00068	0.00070	0.20000	0.20000	0.02000	0.00200	0.00060	0.00002	0.00000	0.42260	
NPK for P2O5		2.35000	2.40000	2.40000	1.64000	0.00876	0.00084	0.00150	0.00200	0.30100	0.20000	0.04010	0.00300	0.00080	0.00003	0.00000	0.54490	
P2O5 - 1		1.92000	3.09000	3.08000	1.21000	0.00921	0.00088	0.00110	0.00100	0.50000	0.40000	0.05000	0.00301	0.00100	0.00003	0.00000	0.95401	
Potash		0.01600	0.02540	0.02540	0.01580	0.00010	0.00001	0.00001	0.00001	0.00401	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00767	
S as Nutrient		1.51000	2.01000	2.01000	0.90100	0.00587	0.00056	0.00091	0.00100	0.30000	0.10100	0.03000	0.00200	0.00070	0.00002	0.00000	0.43370	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.63000	2.38000	2.38000	0.98800	0.00465	0.00044	0.00097	0.00100	0.20000	0.20000	0.03010	0.00200	0.00040	0.00003	0.00000	0.43250	
Houston, TX		Boron	0.00085	0.00196	0.00196	0.00080	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054
		Gypsum Products	0.38200	0.60000	0.60000	0.30100	0.00222	0.00021	0.00056	0.00030	0.10000	0.07000	0.01000	0.00100	0.00030	0.00003	0.00000	0.18130
		Iron	1.59000	2.61000	2.61000	1.72000	0.00932	0.00089	0.00241	0.00100	0.50000	0.30100	0.06010	0.00401	0.00100	0.00009	0.00000	0.86611
	Liming Materials	2.21000	3.37000	3.37000	1.36000	0.01220	0.00117	0.00324	0.00200	0.50000	0.40000	0.05000	0.00400	0.00100	0.00010	0.00000	0.95500	
	Micronutrients	0.06140	0.09130	0.09130	0.04950	0.00035	0.00003	0.00009	0.00004	0.02000	0.01000	0.00200	0.00010	0.00004	0.00000	0.00000	0.03214	
	Mn	0.00462	0.00737	0.00737	0.00324	0.00002	0.00000	0.00001	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
	NPK as N	1.04000	1.41000	1.41000	0.60800	0.00433	0.00039	0.00149	0.00070	0.20000	0.20000	0.02000	0.00200	0.00060	0.00003	0.00000	0.42260	
	NPK for P2O5	2.38000	2.41000	2.41000	1.77000	0.00892	0.00085	0.00348	0.00200	0.30100	0.20000	0.04000	0.00300	0.00070	0.00005	0.00000	0.54470	
	P2O5 - 1	1.92000	3.01000	3.01000	1.23000	0.00888	0.00085	0.00270	0.00100	0.50000	0.30100	0.05000	0.00301	0.00100	0.00007	0.00000	0.85501	
	Potash	0.01520	0.02550	0.02550	0.01510	0.00010	0.00001	0.00002	0.00001	0.00400	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00766	
	S as Nutrient	1.43000	1.90000	1.90000	0.88700	0.00577	0.00055	0.00204	0.00100	0.30000	0.20000	0.03000	0.00200	0.00060	0.00006	0.00000	0.53260	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.62000	2.39000	2.39000	0.98100	0.00475	0.00046	0.00204	0.00100	0.20000	0.20000	0.03010	0.00200	0.00050	0.00007	0.00000	0.43260	

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Cadmium (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	0.00088	0.00207	0.00207	0.00083	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054	
	Gypsum Products	0.40400	0.61800	0.61800	0.32000	0.00227	0.00022	0.00023	0.00030	0.10000	0.07000	0.01000	0.00100	0.00030	0.00001	0.00000	0.18130	
	Iron	1.69000	2.80000	2.80000	1.79000	0.00967	0.00092	0.00105	0.00100	0.40100	0.40000	0.06010	0.00401	0.00100	0.00004	0.00000	0.86611	
	Liming Materials	2.37000	3.42000	3.42000	1.35000	0.01190	0.00114	0.00134	0.00200	0.50000	0.40000	0.05000	0.00400	0.00100	0.00005	0.00000	0.95500	
	Micronutrients	0.06160	0.09240	0.09230	0.05030	0.00037	0.00004	0.00004	0.00005	0.02000	0.01000	0.00200	0.00010	0.00004	0.00000	0.00000	0.03214	
	Mn	0.00479	0.00789	0.00788	0.00331	0.00003	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
	NPK as N	1.05000	1.48000	1.48000	0.61200	0.00453	0.00041	0.00056	0.00080	0.20000	0.20000	0.02000	0.00200	0.00070	0.00002	0.00000	0.42270	
	NPK for P2O5	2.44000	2.45000	2.45000	1.75000	0.00825	0.00079	0.00171	0.00200	0.40000	0.20000	0.04010	0.00300	0.00080	0.00002	0.00000	0.64390	
	P2O5 - 1	1.95000	3.12000	3.12000	1.26000	0.00923	0.00088	0.00106	0.00100	0.50000	0.40000	0.05000	0.00301	0.00100	0.00004	0.00000	0.95401	
	Potash	0.01650	0.02660	0.02660	0.01580	0.00011	0.00001	0.00001	0.00001	0.00500	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00866	
	S as Nutrient	1.52000	2.16000	2.16000	0.93400	0.00594	0.00057	0.00076	0.00100	0.30000	0.20000	0.03000	0.00200	0.00070	0.00002	0.00000	0.53270	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.71000	2.46000	2.45000	1.05000	0.00485	0.00047	0.00086	0.00100	0.20000	0.20000	0.03010	0.00200	0.00050	0.00003	0.00000	0.43260	
	Las Vegas, NV	Boron	0.00090	0.00211	0.00211	0.00096	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00005	0.00000	0.00000	0.00000	0.00000	0.00076
		Gypsum Products	0.42900	0.69700	0.69700	0.39400	0.00239	0.00023	0.00007	0.00030	0.10000	0.08010	0.01000	0.00100	0.00030	0.00000	0.00000	0.19140
		Iron	1.84000	3.25000	3.25000	1.80000	0.01020	0.00098	0.00030	0.00100	0.50000	0.40000	0.08010	0.00501	0.00100	0.00001	0.00000	0.98611
Liming Materials		2.48000	3.96000	3.96000	1.50000	0.01270	0.00122	0.00033	0.00200	0.50000	0.40100	0.07000	0.00500	0.00100	0.00001	0.00000	0.97700	
Micronutrients		0.06370	0.10300	0.10300	0.05810	0.00044	0.00004	0.00001	0.00005	0.02000	0.01000	0.00200	0.00020	0.00005	0.00000	0.00000	0.03225	
Mn		0.00496	0.00821	0.00821	0.00376	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
NPK as N		1.11000	1.83000	1.83000	0.79300	0.00486	0.00045	0.00016	0.00080	0.20100	0.20000	0.03000	0.00300	0.00070	0.00000	0.00000	0.43470	
NPK for P2O5		2.84000	2.69000	2.69000	2.10000	0.01000	0.00096	0.00039	0.00200	0.40000	0.20100	0.04010	0.00400	0.00080	0.00001	0.00000	0.64590	
P2O5 - 1		2.02000	3.28000	3.28000	1.48000	0.00965	0.00092	0.00029	0.00101	0.60000	0.40000	0.06000	0.00400	0.00100	0.00001	0.00000	1.06500	
Potash		0.01730	0.02810	0.02810	0.01790	0.00011	0.00001	0.00000	0.00001	0.00500	0.00301	0.00070	0.00007	0.00002	0.00000	0.00000	0.00880	
S as Nutrient		1.56000	2.61000	2.61000	1.05000	0.00641	0.00061	0.00025	0.00100	0.30000	0.20000	0.04000	0.00200	0.00080	0.00001	0.00000	0.54280	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.71000	2.57000	2.57000	1.24000	0.00675	0.00064	0.00025	0.00100	0.30000	0.30000	0.04000	0.00200	0.00050	0.00001	0.00000	0.64250	
Los Angeles, CA		Boron	0.00089	0.00204	0.00204	0.00094	0.00001	0.00000	0.00000	0.00000	0.00040	0.00020	0.00005	0.00000	0.00000	0.00000	0.00000	0.00066
		Gypsum Products	0.41400	0.65400	0.65400	0.35100	0.00239	0.00023	0.00007	0.00030	0.10000	0.08010	0.01000	0.00100	0.00030	0.00000	0.00000	0.19140
		Iron	1.74000	3.30000	3.30000	1.85000	0.01020	0.00097	0.00028	0.00100	0.50000	0.40000	0.08000	0.00500	0.00100	0.00001	0.00000	0.98600
	Liming Materials	2.42000	3.90000	3.90000	1.39000	0.01240	0.00117	0.00037	0.00200	0.50000	0.40000	0.06010	0.00500	0.00100	0.00001	0.00000	0.96610	
	Micronutrients	0.06260	0.09440	0.09440	0.05750	0.00044	0.00004	0.00001	0.00005	0.02000	0.01000	0.00200	0.00020	0.00005	0.00000	0.00000	0.03225	
	Mn	0.00493	0.00784	0.00784	0.00374	0.00003	0.00000	0.00000	0.00000	0.00101	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00222	
	NPK as N	1.07000	1.54000	1.54000	0.74500	0.00467	0.00045	0.00018	0.00080	0.20000	0.20000	0.02010	0.00200	0.00070	0.00000	0.00000	0.42280	
	NPK for P2O5	2.52000	2.59000	2.59000	2.06000	0.01010	0.00097	0.00044	0.00200	0.30100	0.20000	0.04010	0.00301	0.00080	0.00001	0.00000	0.54491	
	P2O5 - 1	2.00000	3.21000	3.21000	1.42000	0.00901	0.00086	0.00031	0.00101	0.60000	0.40000	0.06000	0.00400	0.00100	0.00001	0.00000	1.06500	
	Potash	0.01700	0.02800	0.02800	0.01710	0.00011	0.00001	0.00000	0.00001	0.00500	0.00300	0.00070	0.00006	0.00001	0.00000	0.00000	0.00877	
	S as Nutrient	1.53000	2.47000	2.47000	1.01000	0.00660	0.00063	0.00023	0.00100	0.30000	0.20000	0.03010	0.00200	0.00070	0.00001	0.00000	0.53280	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.71000	2.49000	2.49000	1.07000	0.00639	0.00061	0.00026	0.00100	0.30000	0.20000	0.04010	0.00200	0.00050	0.00001	0.00000	0.54260	

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Cadmium (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	0.00084	0.00199	0.00199	0.00078	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054	
	Gypsum Products	0.38600	0.57200	0.57200	0.28200	0.00200	0.00019	0.00043	0.00030	0.10000	0.07000	0.01000	0.00100	0.00030	0.00002	0.00000	0.18130	
	Iron	1.61000	2.79000	2.79000	1.69000	0.00894	0.00085	0.00192	0.00100	0.40000	0.30000	0.06000	0.00400	0.00090	0.00007	0.00000	0.76490	
	Liming Materials	2.18000	3.11000	3.11000	1.27000	0.01160	0.00113	0.00244	0.00200	0.50000	0.40000	0.05000	0.00400	0.00100	0.00009	0.00000	0.95500	
	Micronutrients	0.05910	0.08640	0.08640	0.04670	0.00034	0.00003	0.00006	0.00005	0.02000	0.01000	0.00200	0.00010	0.00003	0.00000	0.00000	0.03213	
	Mn	0.00458	0.00763	0.00763	0.00307	0.00002	0.00000	0.00001	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
	NPK as N	1.01000	1.41000	1.41000	0.58000	0.00449	0.00041	0.00107	0.00070	0.20000	0.20000	0.02000	0.00200	0.00060	0.00003	0.00000	0.42260	
	NPK for P2O5	2.24000	2.38000	2.38000	1.56000	0.00845	0.00081	0.00275	0.00200	0.30100	0.20000	0.04000	0.00300	0.00080	0.00005	0.00000	0.54480	
	P2O5 - 1	1.95000	2.89000	2.89000	1.22000	0.00896	0.00085	0.00212	0.00100	0.50000	0.40000	0.05000	0.00400	0.00100	0.00006	0.00000	0.95500	
	Potash	0.01550	0.02500	0.02500	0.01620	0.00010	0.00001	0.00002	0.00001	0.00500	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00866	
	S as Nutrient	1.45000	2.05000	2.05000	0.88400	0.00572	0.00055	0.00163	0.00100	0.30000	0.10000	0.03000	0.00200	0.00070	0.00004	0.00000	0.43270	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.63000	2.31000	2.31000	0.91100	0.00464	0.00044	0.00167	0.00100	0.20000	0.20000	0.03000	0.00200	0.00050	0.00006	0.00000	0.43250	
	Miami, FL	Boron	0.00083	0.00200	0.00200	0.00077	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054
		Gypsum Products	0.38300	0.54000	0.54000	0.24900	0.00206	0.00020	0.00023	0.00030	0.09010	0.06000	0.01000	0.00080	0.00030	0.00001	0.00000	0.16120
		Iron	1.63000	2.54000	2.54000	1.44000	0.00763	0.00073	0.00120	0.00100	0.40100	0.30100	0.06000	0.00400	0.00090	0.00004	0.00000	0.76690
Liming Materials		2.22000	3.03000	3.03000	1.26000	0.01160	0.00111	0.00151	0.00200	0.50000	0.30000	0.05000	0.00400	0.00100	0.00004	0.00000	0.85500	
Micronutrients		0.05870	0.08350	0.08350	0.04580	0.00031	0.00003	0.00003	0.00004	0.01000	0.01000	0.00200	0.00010	0.00003	0.00000	0.00000	0.02213	
Mn		0.00449	0.00703	0.00703	0.00301	0.00002	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
NPK as N		0.99600	1.42000	1.42000	0.55800	0.00451	0.00041	0.00060	0.00070	0.10100	0.20000	0.02000	0.00200	0.00040	0.00002	0.00000	0.32340	
NPK for P2O5		2.05000	1.93000	1.93000	1.57000	0.00777	0.00074	0.00119	0.00200	0.30100	0.20000	0.04000	0.00300	0.00060	0.00002	0.00000	0.54460	
P2O5 - 1		1.86000	2.73000	2.73000	1.15000	0.00844	0.00081	0.00114	0.00100	0.50000	0.30100	0.04000	0.00300	0.00100	0.00003	0.00000	0.84500	
Potash		0.01500	0.02420	0.02420	0.01370	0.00008	0.00001	0.00001	0.00001	0.00400	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00766	
S as Nutrient		1.42000	1.64000	1.64000	0.90000	0.00568	0.00054	0.00076	0.00100	0.20100	0.10000	0.02000	0.00200	0.00060	0.00002	0.00000	0.32360	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.65000	2.32000	2.32000	0.86800	0.00451	0.00044	0.00101	0.00100	0.20000	0.20000	0.03000	0.00200	0.00040	0.00003	0.00000	0.43240	
Minneapolis, MN		Boron	0.00089	0.00208	0.00208	0.00087	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00004	0.00000	0.00000	0.00000	0.00000	0.00074
		Gypsum Products	0.40200	0.63200	0.63100	0.34200	0.00231	0.00022	0.00021	0.00030	0.10000	0.07010	0.01000	0.00100	0.00030	0.00001	0.00000	0.18140
		Iron	1.74000	3.12000	3.12000	1.84000	0.01010	0.00097	0.00092	0.00100	0.50000	0.40000	0.08000	0.00500	0.00100	0.00003	0.00000	0.98600
	Liming Materials	2.42000	3.71000	3.71000	1.39000	0.01190	0.00114	0.00120	0.00200	0.50000	0.40000	0.05010	0.00400	0.00100	0.00005	0.00000	0.95510	
	Micronutrients	0.06440	0.09010	0.09010	0.05180	0.00043	0.00004	0.00003	0.00005	0.02000	0.01000	0.00200	0.00010	0.00004	0.00000	0.00000	0.03214	
	Mn	0.00494	0.00790	0.00790	0.00349	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
	NPK as N	1.07000	1.54000	1.54000	0.64400	0.00477	0.00045	0.00048	0.00080	0.20000	0.20000	0.02010	0.00200	0.00070	0.00001	0.00000	0.42280	
	NPK for P2O5	2.46000	2.53000	2.52000	1.83000	0.00970	0.00092	0.00108	0.00200	0.40000	0.20000	0.04010	0.00301	0.00080	0.00002	0.00000	0.64391	
	P2O5 - 1	1.97000	3.22000	3.22000	1.36000	0.00904	0.00087	0.00092	0.00200	0.60000	0.40000	0.06000	0.00400	0.00101	0.00003	0.00000	1.06501	
	Potash	0.01670	0.02640	0.02640	0.01700	0.00011	0.00001	0.00001	0.00001	0.00500	0.00301	0.00070	0.00006	0.00001	0.00000	0.00000	0.00878	
	S as Nutrient	1.52000	2.13000	2.13000	0.94000	0.00623	0.00060	0.00073	0.00100	0.30000	0.20000	0.03000	0.00200	0.00070	0.00003	0.00000	0.53270	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.74000	2.47000	2.47000	1.06000	0.00608	0.00058	0.00076	0.00100	0.20100	0.20000	0.04000	0.00200	0.00050	0.00002	0.00000	0.44350	

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Cadmium (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	0.00085	0.00201	0.00201	0.00082	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054
	Gypsum Products	0.39400	0.60300	0.60300	0.30600	0.00219	0.00021	0.00030	0.00030	0.10000	0.07000	0.01000	0.00100	0.00030	0.00001	0.00000	0.18130
	Iron	1.67000	2.64000	2.64000	1.76000	0.00966	0.00092	0.00134	0.00100	0.40100	0.30100	0.06010	0.00401	0.00100	0.00004	0.00000	0.76711
	Liming Materials	2.24000	3.22000	3.22000	1.35000	0.01190	0.00114	0.00162	0.00200	0.50000	0.40000	0.05010	0.00400	0.00100	0.00006	0.00000	0.95510
	Micronutrients	0.06150	0.08820	0.08820	0.04940	0.00036	0.00003	0.00005	0.00005	0.02000	0.01000	0.00200	0.00010	0.00003	0.00000	0.00000	0.03213
	Mn	0.00468	0.00785	0.00785	0.00322	0.00002	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211
	NPK as N	1.04000	1.48000	1.48000	0.60600	0.00434	0.00041	0.00074	0.00080	0.20000	0.20000	0.02000	0.00200	0.00060	0.00002	0.00000	0.42260
	NPK for P2O5	2.43000	2.46000	2.46000	1.75000	0.00940	0.00090	0.00176	0.00200	0.30100	0.20000	0.04000	0.00300	0.00080	0.00003	0.00000	0.54480
	P2O5 - 1	1.95000	2.93000	2.93000	1.30000	0.00922	0.00088	0.00127	0.00100	0.50000	0.40000	0.05000	0.00400	0.00100	0.00004	0.00000	0.95500
	Potash	0.01610	0.02550	0.02550	0.01630	0.00011	0.00001	0.00001	0.00001	0.00500	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00866
	S as Nutrient	1.48000	2.06000	2.06000	0.88800	0.00574	0.00055	0.00106	0.00100	0.30000	0.10100	0.03000	0.00200	0.00070	0.00003	0.00000	0.43370
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	1.67000	2.43000	2.43000	1.02000	0.00481	0.00046	0.00117	0.00100	0.20000	0.20000	0.03010	0.00200	0.00050	0.00004	0.00000	0.43260
	Phoenix, AZ	Boron	0.00090	0.00211	0.00211	0.00098	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00005	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.43400	0.69700	0.69700	0.29300	0.00242	0.00023	0.00008	0.00030	0.10000	0.08010	0.01000	0.00100	0.00030	0.00000	0.00000	0.19140
Iron		1.86000	3.34000	3.34000	1.83000	0.01060	0.00101	0.00041	0.00100	0.50000	0.40100	0.08010	0.00500	0.00100	0.00001	0.00000	0.98710
Liming Materials		2.45000	4.07000	4.07000	1.50000	0.01290	0.00123	0.00048	0.00200	0.50100	0.40100	0.07000	0.00500	0.00100	0.00001	0.00000	0.97800
Micronutrients		0.06500	0.09800	0.09800	0.05640	0.00046	0.00004	0.00001	0.00005	0.02000	0.01000	0.00200	0.00020	0.00005	0.00000	0.00000	0.03225
Mn		0.00510	0.00807	0.00807	0.00386	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
NPK as N		1.08000	1.83000	1.83000	0.82000	0.00492	0.00045	0.00021	0.00080	0.20100	0.20000	0.03000	0.00201	0.00070	0.00000	0.00000	0.43371
NPK for P2O5		2.74000	2.66000	2.66000	2.08000	0.01070	0.00103	0.00048	0.00200	0.40000	0.20100	0.04020	0.00400	0.00080	0.00001	0.00000	0.64600
P2O5 - 1		2.03000	3.30000	3.30000	1.48000	0.01010	0.00097	0.00038	0.00200	0.60000	0.40000	0.06000	0.00400	0.00100	0.00001	0.00000	1.06500
Potash		0.01740	0.02810	0.02810	0.01790	0.00012	0.00001	0.00000	0.00001	0.00500	0.00301	0.00070	0.00006	0.00002	0.00000	0.00000	0.00879
S as Nutrient		1.56000	2.62000	2.62000	1.07000	0.00669	0.00064	0.00032	0.00100	0.30000	0.20000	0.03010	0.00200	0.00080	0.00001	0.00000	0.53290
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		1.73000	2.57000	2.57000	1.20000	0.00675	0.00064	0.00031	0.00100	0.30000	0.30000	0.04010	0.00200	0.00060	0.00001	0.00000	0.64270
Portland, ME		Boron	0.00084	0.00199	0.00199	0.00076	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.37400	0.57000	0.57000	0.29500	0.00197	0.00019	0.00020	0.00030	0.10000	0.07000	0.01000	0.00100	0.00030	0.00001	0.00000	0.18130
	Iron	1.57000	2.59000	2.59000	1.69000	0.00882	0.00084	0.00090	0.00100	0.40000	0.30100	0.06000	0.00400	0.00090	0.00003	0.00000	0.76590
	Liming Materials	2.18000	3.11000	3.10000	1.29000	0.01190	0.00114	0.00120	0.00200	0.40100	0.30100	0.05000	0.00400	0.00100	0.00004	0.00000	0.75700
	Micronutrients	0.06000	0.08620	0.08620	0.04810	0.00034	0.00003	0.00003	0.00005	0.02000	0.00900	0.00200	0.00010	0.00003	0.00000	0.00000	0.03113
	Mn	0.00443	0.00730	0.00730	0.00306	0.00002	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211
	NPK as N	0.98900	1.33000	1.33000	0.56000	0.00434	0.00041	0.00050	0.00070	0.20000	0.20000	0.02000	0.00200	0.00060	0.00001	0.00000	0.42260
	NPK for P2O5	2.17000	2.42000	2.42000	1.68000	0.00844	0.00081	0.00120	0.00200	0.30100	0.20000	0.04000	0.00300	0.00080	0.00002	0.00000	0.54480
	P2O5 - 1	1.90000	2.80000	2.80000	1.19000	0.00855	0.00082	0.00091	0.00100	0.50000	0.30100	0.04010	0.00400	0.00100	0.00003	0.00000	0.84610
	Potash	0.01540	0.02510	0.02510	0.01540	0.00010	0.00001	0.00001	0.00001	0.00401	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00767
	S as Nutrient	1.47000	2.05000	2.05000	0.88400	0.00564	0.00054	0.00074	0.00100	0.30000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.53260
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	1.61000	2.36000	2.36000	0.96500	0.00463	0.00044	0.00076	0.00100	0.20000	0.20000	0.03000	0.00101	0.00040	0.00003	0.00000	0.43141

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Cadmium (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	0.00084	0.00200	0.00200	0.00080	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054	
	Gypsum Products	0.38900	0.58100	0.58100	0.30200	0.00215	0.00021	0.00030	0.00030	0.10000	0.07000	0.01000	0.00100	0.00030	0.00001	0.00000	0.18130	
	Iron	1.67000	2.65000	2.64000	1.76000	0.00907	0.00087	0.00145	0.00100	0.40100	0.30100	0.06010	0.00401	0.00100	0.00005	0.00000	0.76711	
	Liming Materials	2.29000	3.23000	3.22000	1.30000	0.01230	0.00118	0.00181	0.00200	0.50000	0.40000	0.05000	0.00400	0.00100	0.00007	0.00000	0.95500	
	Micronutrients	0.06020	0.08620	0.08610	0.04940	0.00036	0.00003	0.00004	0.00005	0.02000	0.01000	0.00200	0.00010	0.00003	0.00000	0.00000	0.03213	
	Mn	0.00470	0.00752	0.00751	0.00332	0.00002	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
	NPK as N	1.02000	1.44000	1.44000	0.60100	0.00450	0.00041	0.00081	0.00070	0.20000	0.20000	0.02000	0.00200	0.00070	0.00002	0.00000	0.42270	
	NPK for P2O5	2.33000	2.46000	2.46000	1.75000	0.00914	0.00087	0.00210	0.00200	0.30100	0.20000	0.04000	0.00300	0.00080	0.00004	0.00000	0.54480	
	P2O5 - 1	1.88000	2.93000	2.93000	1.22000	0.00893	0.00085	0.00139	0.00100	0.50000	0.40000	0.05000	0.00400	0.00100	0.00004	0.00000	0.95500	
	Potash	0.01560	0.02540	0.02540	0.01580	0.00010	0.00001	0.00001	0.00001	0.00401	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00767	
	S as Nutrient	1.43000	2.03000	2.03000	0.90100	0.00573	0.00055	0.00106	0.00100	0.30000	0.20000	0.03000	0.00200	0.00070	0.00003	0.00000	0.53270	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.70000	2.43000	2.43000	0.98600	0.00484	0.00046	0.00116	0.00100	0.20000	0.20000	0.03010	0.00200	0.00050	0.00004	0.00000	0.43260	
	Salem, OR	Boron	0.00087	0.00207	0.00207	0.00083	0.00001	0.00000	0.00000	0.00000	0.00030	0.00020	0.00004	0.00000	0.00000	0.00000	0.00000	0.00054
		Gypsum Products	0.38500	0.59900	0.59800	0.30600	0.00220	0.00021	0.00022	0.00030	0.10000	0.07010	0.01000	0.00090	0.00030	0.00001	0.00000	0.18130
		Iron	1.68000	2.70000	2.70000	1.73000	0.00933	0.00089	0.00093	0.00100	0.40000	0.30100	0.06010	0.00401	0.00100	0.00003	0.00000	0.76611
Liming Materials		2.23000	3.36000	3.36000	1.33000	0.01230	0.00118	0.00109	0.00200	0.50000	0.40000	0.05010	0.00400	0.00100	0.00002	0.00000	0.95510	
Micronutrients		0.06160	0.08790	0.08790	0.04980	0.00037	0.00004	0.00003	0.00005	0.01010	0.01000	0.00200	0.00010	0.00003	0.00000	0.00000	0.02223	
Mn		0.00473	0.00785	0.00784	0.00326	0.00003	0.00000	0.00000	0.00000	0.00100	0.00100	0.00010	0.00001	0.00000	0.00000	0.00000	0.00211	
NPK as N		1.03000	1.42000	1.41000	0.59700	0.00448	0.00042	0.00051	0.00070	0.20000	0.20000	0.02000	0.00200	0.00060	0.00001	0.00000	0.42260	
NPK for P2O5		2.38000	2.46000	2.46000	1.72000	0.00808	0.00077	0.00100	0.00200	0.40000	0.20000	0.04000	0.00300	0.00070	0.00002	0.00000	0.64370	
P2O5 - 1		1.92000	2.74000	2.74000	1.27000	0.00892	0.00085	0.00092	0.00100	0.50000	0.40000	0.05000	0.00400	0.00100	0.00002	0.00000	0.95500	
Potash		0.01550	0.02630	0.02630	0.01580	0.00010	0.00001	0.00001	0.00001	0.00401	0.00300	0.00060	0.00005	0.00001	0.00000	0.00000	0.00767	
S as Nutrient		1.40000	2.08000	2.08000	0.90200	0.00594	0.00057	0.00070	0.00100	0.30000	0.20000	0.03000	0.00200	0.00060	0.00001	0.00000	0.53260	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.70000	2.47000	2.47000	1.01000	0.00499	0.00048	0.00072	0.00100	0.20000	0.20000	0.03010	0.00200	0.00050	0.00002	0.00000	0.43260	
Salt Lake City, UT		Boron	0.00091	0.00213	0.00213	0.00097	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00005	0.00000	0.00000	0.00000	0.00000	0.00076
		Gypsum Products	0.44000	0.67500	0.67500	0.40100	0.00248	0.00024	0.00008	0.00030	0.10000	0.08010	0.01000	0.00100	0.00040	0.00000	0.00000	0.19150
		Iron	1.87000	3.22000	3.22000	1.95000	0.01050	0.00100	0.00032	0.00100	0.50000	0.40100	0.08010	0.00501	0.00100	0.00001	0.00000	0.98711
	Liming Materials	2.57000	4.08000	4.08000	1.54000	0.01330	0.00127	0.00046	0.00200	0.50000	0.40100	0.07000	0.00500	0.00100	0.00001	0.00000	0.97700	
	Micronutrients	0.06500	0.10100	0.10100	0.06230	0.00048	0.00005	0.00001	0.00005	0.02000	0.01000	0.00200	0.00020	0.00005	0.00000	0.00000	0.03225	
	Mn	0.00516	0.00831	0.00830	0.00387	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
	NPK as N	1.11000	1.84000	1.84000	0.82100	0.00502	0.00047	0.00020	0.00080	0.20000	0.20000	0.03000	0.00300	0.00070	0.00000	0.00000	0.43370	
	NPK for P2O5	2.84000	2.70000	2.70000	2.15000	0.01040	0.00099	0.00045	0.00200	0.40000	0.30000	0.04020	0.00400	0.00080	0.00001	0.00000	0.74500	
	P2O5 - 1	2.09000	3.39000	3.39000	1.48000	0.01080	0.00104	0.00037	0.00200	0.60000	0.40100	0.06000	0.00400	0.00101	0.00001	0.00000	1.06601	
	Potash	0.01760	0.02910	0.02910	0.01800	0.00012	0.00001	0.00000	0.00002	0.00500	0.00400	0.00080	0.00007	0.00002	0.00000	0.00000	0.00989	
	S as Nutrient	1.62000	2.63000	2.63000	1.10000	0.00655	0.00063	0.00026	0.00100	0.30000	0.20000	0.04000	0.00200	0.00080	0.00001	0.00000	0.54280	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.82000	2.59000	2.59000	1.25000	0.00692	0.00067	0.00028	0.00100	0.20100	0.30000	0.04000	0.00200	0.00060	0.00001	0.00000	0.54360	

**99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Cadmium (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	0.00089	0.00209	0.00209	0.00093	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00004	0.00000	0.00000	0.00000	0.00000	0.00075	
	Gypsum Products	0.41500	0.65800	0.65800	0.36700	0.00239	0.00023	0.00008	0.00030	0.10000	0.08010	0.01000	0.00100	0.00030	0.00000	0.00000	0.19140	
	Iron	1.73000	3.21000	3.21000	1.76000	0.01050	0.00100	0.00033	0.00100	0.50000	0.40000	0.07010	0.00500	0.00100	0.00001	0.00000	0.97610	
	Liming Materials	2.41000	3.93000	3.93000	1.44000	0.01300	0.00123	0.00043	0.00200	0.50000	0.40000	0.06010	0.00401	0.00100	0.00002	0.00000	0.96511	
	Micronutrients	0.06290	0.09570	0.09560	0.05490	0.00044	0.00004	0.00001	0.00005	0.02000	0.01000	0.00200	0.00010	0.00005	0.00000	0.00000	0.03215	
	Mn	0.00496	0.00804	0.00804	0.00370	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
	NPK as N	1.06000	1.54000	1.54000	0.66500	0.00485	0.00045	0.00019	0.00080	0.20100	0.20000	0.02010	0.00300	0.00070	0.00001	0.00000	0.42480	
	NPK for P2O5	2.53000	2.60000	2.60000	2.00000	0.01020	0.00097	0.00048	0.00200	0.40000	0.20000	0.04010	0.00301	0.00080	0.00001	0.00000	0.64391	
	P2O5 - 1	2.03000	3.23000	3.23000	1.38000	0.00922	0.00088	0.00034	0.00101	0.60000	0.40000	0.06000	0.00400	0.00100	0.00001	0.00000	1.06500	
	Potash	0.01710	0.02770	0.02770	0.01770	0.00011	0.00001	0.00000	0.00001	0.00500	0.00300	0.00070	0.00006	0.00001	0.00000	0.00000	0.00877	
	S as Nutrient	1.52000	2.45000	2.44000	0.97200	0.00662	0.00063	0.00027	0.00100	0.30000	0.20000	0.03000	0.00200	0.00070	0.00001	0.00000	0.53270	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	1.70000	2.49000	2.49000	1.09000	0.00621	0.00060	0.00029	0.00100	0.20100	0.20000	0.04000	0.00200	0.00050	0.00001	0.00000	0.44350	
	Winnemucca, NV	Boron	0.00089	0.00216	0.00216	0.00093	0.00001	0.00000	0.00000	0.00000	0.00040	0.00030	0.00004	0.00000	0.00000	0.00000	0.00000	0.00075
		Gypsum Products	0.43200	0.68000	0.68000	0.38100	0.00233	0.00022	0.00004	0.00030	0.10000	0.08010	0.01000	0.00100	0.00040	0.00000	0.00000	0.19150
		Iron	1.84000	3.23000	3.23000	1.79000	0.01050	0.00101	0.00017	0.00100	0.50000	0.40000	0.08000	0.00501	0.00100	0.00001	0.00000	0.98601
Liming Materials		2.48000	3.92000	3.92000	1.47000	0.01320	0.00126	0.00019	0.00200	0.50100	0.40000	0.07000	0.00500	0.00100	0.00001	0.00000	0.97700	
Micronutrients		0.06250	0.09730	0.09730	0.06030	0.00044	0.00004	0.00001	0.00005	0.02000	0.01000	0.00200	0.00020	0.00005	0.00000	0.00000	0.03225	
Mn		0.00517	0.00825	0.00825	0.00381	0.00003	0.00000	0.00000	0.00000	0.00200	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321	
NPK as N		1.11000	1.77000	1.77000	0.78000	0.00489	0.00045	0.00008	0.00080	0.20000	0.20000	0.03000	0.00300	0.00070	0.00000	0.00000	0.43370	
NPK for P2O5		2.74000	2.72000	2.72000	1.98000	0.01020	0.00097	0.00016	0.00200	0.40000	0.20100	0.04020	0.00301	0.00080	0.00000	0.00000	0.64501	
P2O5 - 1		2.03000	3.20000	3.20000	1.53000	0.00935	0.00091	0.00014	0.00200	0.60000	0.40000	0.06000	0.00400	0.00100	0.00000	0.00000	1.06500	
Potash		0.01730	0.02900	0.02900	0.01780	0.00012	0.00001	0.00000	0.00001	0.00500	0.00400	0.00070	0.00006	0.00002	0.00000	0.00000	0.00978	
S as Nutrient		1.56000	2.65000	2.65000	1.04000	0.00644	0.00062	0.00014	0.00100	0.30000	0.20000	0.03010	0.00200	0.00080	0.00000	0.00000	0.53290	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		1.73000	2.58000	2.58000	1.19000	0.00624	0.00060	0.00011	0.00100	0.30000	0.30000	0.04000	0.00200	0.00060	0.00000	0.00000	0.64260	

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.