

US EPA ARCHIVE DOCUMENT

**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Nickel (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	0.00259	0.00003	0.00003	0.00016	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	Gypsum Products	0.42300	0.00547	0.00512	0.02060	0.01400	0.00373	0.00000	0.00002	0.00005	0.00004	0.00004	0.00100	0.00100	0.00000	0.00000	0.00213	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	45.90000	0.55300	0.49100	0.92400	0.49500	0.16400	0.00004	0.00200	0.00200	0.00100	0.00100	0.02050	0.03000	0.00000	0.00000	0.05450	
	Micronutrients	0.01870	0.00024	0.00022	0.00084	0.00046	0.00013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.05830	0.00076	0.00072	0.00302	0.00205	0.00056	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.91000	0.02490	0.02280	0.08340	0.05080	0.01360	0.00000	0.00007	0.00020	0.00010	0.00010	0.00300	0.00300	0.00000	0.00000	0.00640	
	NPK for P2O5	0.76700	0.00870	0.00807	0.01730	0.01500	0.00436	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.68400	0.00776	0.00722	0.01750	0.01230	0.00361	0.00000	0.00002	0.00004	0.00003	0.00003	0.00071	0.00080	0.00000	0.00000	0.00161	
	Potash	0.02140	0.00026	0.00024	0.00097	0.00056	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.36000	0.01650	0.01540	0.04880	0.01810	0.00571	0.00000	0.00005	0.00010	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00222	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.49000	0.02910	0.02650	0.05650	0.02360	0.00759	0.00000	0.00009	0.00009	0.00005	0.00005	0.00100	0.00105	0.00000	0.00000	0.00224	
	Albuquerque, NM	Boron	0.00273	0.00003	0.00003	0.00017	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.46100	0.00539	0.00521	0.02170	0.01530	0.00393	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		49.70000	0.51000	0.49800	0.98400	0.50500	0.16900	0.00002	0.00200	0.00200	0.00100	0.00100	0.02000	0.03000	0.00000	0.00000	0.05400	
Micronutrients		0.01970	0.00023	0.00022	0.00093	0.00054	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
Mn		0.06160	0.00075	0.00072	0.00324	0.00218	0.00061	0.00000	0.00000	0.00001	0.00001	0.00001	0.00011	0.00010	0.00000	0.00000	0.00022	
NPK as N		2.06000	0.02420	0.02330	0.09070	0.05120	0.01370	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
NPK for P2O5		0.78800	0.00823	0.00779	0.01810	0.01640	0.00448	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
P2O5 - 1		0.72700	0.00761	0.00728	0.01860	0.01440	0.00408	0.00000	0.00002	0.00004	0.00003	0.00004	0.00080	0.00090	0.00000	0.00000	0.00181	
Potash		0.02260	0.00025	0.00024	0.00100	0.00057	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
S as Nutrient		1.50000	0.01680	0.01620	0.05140	0.02000	0.00608	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		2.67000	0.02780	0.02670	0.06150	0.02510	0.00782	0.00000	0.00009	0.00008	0.00005	0.00005	0.00100	0.00105	0.00000	0.00000	0.00223	
Atlanta, GA		Boron	0.00249	0.00003	0.00003	0.00015	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
		Gypsum Products	0.40300	0.00520	0.00488	0.02020	0.01290	0.00347	0.00000	0.00002	0.00005	0.00003	0.00004	0.00100	0.00090	0.00000	0.00000	0.00202
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	43.60000	0.50700	0.45800	0.90100	0.43100	0.14400	0.00001	0.00200	0.00200	0.00091	0.00100	0.02000	0.03000	0.00000	0.00000	0.05391	
	Micronutrients	0.01780	0.00022	0.00021	0.00082	0.00044	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.05600	0.00073	0.00068	0.00294	0.00193	0.00052	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.76000	0.02390	0.02160	0.08210	0.04860	0.01280	0.00000	0.00007	0.00020	0.00010	0.00010	0.00300	0.00300	0.00000	0.00000	0.00640	
	NPK for P2O5	0.71200	0.00793	0.00735	0.01710	0.01410	0.00407	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00071	0.00000	0.00000	0.00182	
	P2O5 - 1	0.64300	0.00699	0.00664	0.01700	0.01180	0.00334	0.00000	0.00002	0.00004	0.00003	0.00003	0.00070	0.00080	0.00000	0.00000	0.00160	
	Potash	0.02020	0.00024	0.00023	0.00091	0.00052	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00003	0.00000	0.00000	0.00007	
	S as Nutrient	1.33000	0.01560	0.01460	0.04580	0.01830	0.00541	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.47000	0.02710	0.02540	0.05260	0.02330	0.00733	0.00000	0.00008	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	

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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	0.00267	0.00003	0.00003	0.00017	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	Gypsum Products	0.44600	0.00506	0.00500	0.02140	0.01450	0.00384	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	48.20000	0.49500	0.49100	0.94300	0.46700	0.15500	0.00004	0.00200	0.00200	0.00100	0.00100	0.02000	0.03000	0.00000	0.00000	0.05400	
	Micronutrients	0.01980	0.00022	0.00022	0.00090	0.00049	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.06110	0.00072	0.00071	0.00321	0.00215	0.00057	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.95000	0.02280	0.02250	0.08620	0.04930	0.01270	0.00000	0.00007	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
	NPK for P2O5	0.77600	0.00794	0.00781	0.01820	0.01550	0.00452	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.72500	0.00701	0.00687	0.01870	0.01350	0.00378	0.00000	0.00003	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
	Potash	0.02170	0.00024	0.00024	0.00095	0.00057	0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.45000	0.01560	0.01540	0.05070	0.01890	0.00572	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.54000	0.02670	0.02640	0.05910	0.02370	0.00729	0.00000	0.00009	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	
	Boise, ID	Boron	0.00280	0.00004	0.00003	0.00017	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.47300	0.00555	0.00534	0.02200	0.01530	0.00404	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		51.70000	0.53800	0.50300	1.05000	0.52500	0.17700	0.00004	0.00200	0.00200	0.00100	0.00100	0.03000	0.03000	0.00000	0.00000	0.06400	
Micronutrients		0.02070	0.00024	0.00023	0.00095	0.00054	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
Mn		0.06370	0.00080	0.00077	0.00328	0.00227	0.00063	0.00000	0.00000	0.00001	0.00001	0.00001	0.00020	0.00010	0.00000	0.00000	0.00032	
NPK as N		2.06000	0.02450	0.02360	0.09140	0.05320	0.01440	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00400	0.00000	0.00000	0.00750	
NPK for P2O5		0.78800	0.00851	0.00815	0.01880	0.01660	0.00466	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00090	0.00000	0.00000	0.00201	
P2O5 - 1		0.75300	0.00822	0.00763	0.01900	0.01440	0.00417	0.00000	0.00003	0.00004	0.00003	0.00004	0.00080	0.00090	0.00000	0.00000	0.00181	
Potash		0.02310	0.00026	0.00025	0.00100	0.00064	0.00017	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
S as Nutrient		1.54000	0.01740	0.01660	0.05290	0.02010	0.00618	0.00000	0.00005	0.00010	0.00007	0.00006	0.00100	0.00100	0.00000	0.00000	0.00223	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		2.77000	0.02860	0.02750	0.06140	0.02600	0.00824	0.00000	0.00009	0.00009	0.00005	0.00005	0.00100	0.00200	0.00000	0.00000	0.00319	
Boulder, CO		Boron	0.00273	0.00003	0.00003	0.00017	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.46400	0.00546	0.00525	0.02190	0.01560	0.00399	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	49.10000	0.55300	0.52300	1.01000	0.52700	0.17400	0.00003	0.00200	0.00200	0.00100	0.00100	0.02050	0.03000	0.00000	0.00000	0.05450	
	Micronutrients	0.02010	0.00024	0.00023	0.00094	0.00052	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.06200	0.00078	0.00075	0.00331	0.00221	0.00062	0.00000	0.00000	0.00001	0.00001	0.00001	0.00011	0.00010	0.00000	0.00000	0.00022	
	NPK as N	2.05000	0.02500	0.02370	0.09030	0.05240	0.01400	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
	NPK for P2O5	0.78400	0.00843	0.00794	0.01860	0.01640	0.00457	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.73000	0.00777	0.00736	0.01890	0.01430	0.00417	0.00000	0.00003	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
	Potash	0.02290	0.00026	0.00025	0.00100	0.00061	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.49000	0.01700	0.01630	0.05100	0.02000	0.00594	0.00000	0.00005	0.00010	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00222	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.67000	0.02770	0.02680	0.06290	0.02580	0.00794	0.00000	0.00009	0.00009	0.00005	0.00005	0.00100	0.00105	0.00000	0.00000	0.00224	

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Casper, WY	Boron	0.00266	0.00003	0.00003	0.00017	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	Gypsum Products	0.44600	0.00515	0.00507	0.02170	0.01450	0.00386	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	48.10000	0.50600	0.49300	1.03000	0.49300	0.16200	0.00004	0.00200	0.00200	0.00100	0.00100	0.02000	0.03000	0.00000	0.00000	0.05400	
	Micronutrients	0.01970	0.00022	0.00022	0.00091	0.00049	0.00013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.06070	0.00072	0.00071	0.00311	0.00212	0.00058	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	2.04000	0.02340	0.02290	0.02290	0.05040	0.01310	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
	NPK for P2O5	0.78800	0.00799	0.00775	0.01790	0.01550	0.00452	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.72300	0.00718	0.00709	0.01830	0.01330	0.00377	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
	Potash	0.02210	0.00024	0.00024	0.00099	0.00056	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.45000	0.01590	0.01570	0.05040	0.01910	0.00572	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.65000	0.02600	0.02530	0.06090	0.02440	0.00766	0.00000	0.00009	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	
	Charleston, SC	Boron	0.00250	0.00003	0.00003	0.00015	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.41100	0.00521	0.00485	0.02030	0.01310	0.00351	0.00000	0.00002	0.00005	0.00003	0.00004	0.00100	0.00100	0.00000	0.00000	0.00212
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		44.50000	0.49900	0.46300	0.90500	0.43500	0.15000	0.00012	0.00200	0.00200	0.00090	0.00100	0.02000	0.03000	0.00000	0.00000	0.05390	
Micronutrients		0.01840	0.00022	0.00021	0.00081	0.00046	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
Mn		0.05590	0.00072	0.00069	0.00293	0.00199	0.00052	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
NPK as N		1.79000	0.02240	0.02110	0.08220	0.04780	0.01320	0.00001	0.00007	0.00020	0.00010	0.00010	0.00300	0.00300	0.00000	0.00000	0.00640	
NPK for P2O5		0.71000	0.00789	0.00754	0.01690	0.01440	0.00411	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00070	0.00000	0.00000	0.00181	
P2O5 - 1		0.66400	0.00707	0.00662	0.01730	0.01160	0.00337	0.00000	0.00002	0.00004	0.00003	0.00003	0.00070	0.00080	0.00000	0.00000	0.00160	
Potash		0.02040	0.00024	0.00023	0.00090	0.00052	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00003	0.00000	0.00000	0.00008	
S as Nutrient		1.32000	0.01510	0.01440	0.04620	0.01800	0.00542	0.00000	0.00005	0.00009	0.00006	0.00006	0.00090	0.00100	0.00000	0.00000	0.00211	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		2.46000	0.02600	0.02490	0.05420	0.02260	0.00687	0.00001	0.00008	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	
Chicago, IL		Boron	0.00263	0.00004	0.00003	0.00016	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.43200	0.00572	0.00526	0.02090	0.01410	0.00376	0.00000	0.00002	0.00005	0.00004	0.00005	0.00100	0.00100	0.00000	0.00000	0.00214
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	46.70000	0.57300	0.52400	0.96200	0.50200	0.16500	0.00010	0.00200	0.00200	0.00100	0.00100	0.03000	0.03000	0.00000	0.00000	0.06400	
	Micronutrients	0.01950	0.00025	0.00023	0.00089	0.00048	0.00013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.05970	0.00079	0.00073	0.00312	0.00209	0.00056	0.00000	0.00000	0.00001	0.00001	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.93000	0.02630	0.02310	0.08480	0.04990	0.01360	0.00001	0.00007	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
	NPK for P2O5	0.76400	0.00882	0.00827	0.01750	0.01580	0.00467	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.71000	0.00823	0.00738	0.01840	0.01310	0.00386	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
	Potash	0.02130	0.00027	0.00025	0.00097	0.00058	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.41000	0.01720	0.01610	0.04910	0.01890	0.00573	0.00000	0.00005	0.00010	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00222	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.60000	0.02930	0.02730	0.05730	0.02430	0.00796	0.00000	0.00008	0.00010	0.00005	0.00005	0.00100	0.00200	0.00000	0.00000	0.00320	

**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Nickel (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	0.00265	0.00004	0.00003	0.00016	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Gypsum Products	0.43700	0.00575	0.00534	0.02130	0.01370	0.00362	0.00000	0.00002	0.00005	0.00004	0.00005	0.00100	0.00100	0.00000	0.00000	0.00214
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	47.60000	0.57600	0.51600	0.92100	0.49700	0.16100	0.00010	0.00200	0.00200	0.00100	0.00100	0.03000	0.03000	0.00000	0.00000	0.06400
	Micronutrients	0.01950	0.00025	0.00023	0.00087	0.00048	0.00013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
	Mn	0.05960	0.00080	0.00074	0.00313	0.00208	0.00056	0.00000	0.00000	0.00001	0.00001	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022
	NPK as N	1.92000	0.02580	0.02310	0.08520	0.05300	0.01400	0.00000	0.00007	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650
	NPK for P2O5	0.77200	0.00935	0.00837	0.01760	0.01570	0.00466	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191
	P2O5 - 1	0.69800	0.00816	0.00745	0.01840	0.01250	0.00371	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180
	Potash	0.02160	0.00028	0.00025	0.00098	0.00057	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009
	S as Nutrient	1.43000	0.01720	0.01590	0.04920	0.01960	0.00561	0.00000	0.00005	0.00010	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00222
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.60000	0.03050	0.02700	0.05710	0.02460	0.00787	0.00001	0.00009	0.00009	0.00005	0.00005	0.00100	0.00200	0.00000	0.00000	0.00319
	Fresno, CA	Boron	0.00274	0.00003	0.00003	0.00016	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000
Gypsum Products		0.45200	0.00539	0.00522	0.02160	0.01530	0.00391	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		50.10000	0.54100	0.51900	0.99000	0.50400	0.16800	0.00003	0.00200	0.00200	0.00100	0.00100	0.02000	0.03000	0.00000	0.00000	0.05400
Micronutrients		0.02020	0.00023	0.00023	0.00092	0.00050	0.00013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
Mn		0.06160	0.00076	0.00074	0.00322	0.00224	0.00059	0.00000	0.00000	0.00001	0.00001	0.00001	0.00020	0.00010	0.00000	0.00000	0.00032
NPK as N		2.05000	0.02430	0.02340	0.09060	0.05140	0.01360	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650
NPK for P2O5		0.77700	0.00834	0.00806	0.01810	0.01630	0.00449	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191
P2O5 - 1		0.74800	0.00768	0.00737	0.01890	0.01430	0.00412	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180
Potash		0.02240	0.00025	0.00024	0.00097	0.00059	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009
S as Nutrient		1.49000	0.01690	0.01640	0.05300	0.02000	0.00618	0.00000	0.00005	0.00010	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00222
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		2.62000	0.02710	0.02620	0.06170	0.02520	0.00777	0.00000	0.00009	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218
Grand Island, NE		Boron	0.00274	0.00003	0.00003	0.00017	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000
	Gypsum Products	0.45500	0.00529	0.00520	0.02180	0.01490	0.00399	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	51.30000	0.52800	0.51400	1.02000	0.50400	0.16600	0.00011	0.00200	0.00200	0.00100	0.00100	0.03000	0.03000	0.00000	0.00000	0.06400
	Micronutrients	0.01990	0.00023	0.00022	0.00091	0.00050	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
	Mn	0.06170	0.00074	0.00072	0.00325	0.00216	0.00056	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022
	NPK as N	2.02000	0.02310	0.02260	0.08880	0.04780	0.01360	0.00001	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650
	NPK for P2O5	0.78900	0.00798	0.00788	0.01860	0.01590	0.00450	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191
	P2O5 - 1	0.72600	0.00730	0.00715	0.01910	0.01350	0.00377	0.00000	0.00003	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180
	Potash	0.02250	0.00025	0.00024	0.00099	0.00060	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009
	S as Nutrient	1.48000	0.01600	0.01580	0.05180	0.01960	0.00593	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.71000	0.02660	0.02600	0.06130	0.02450	0.00758	0.00001	0.00009	0.00008	0.00005	0.00005	0.00100	0.00105	0.00000	0.00000	0.00223

**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Nickel (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	0.00259	0.00003	0.00003	0.00016	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	Gypsum Products	0.42800	0.00515	0.00498	0.02120	0.01370	0.00365	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	47.40000	0.50100	0.48200	0.97900	0.45200	0.15600	0.00009	0.00200	0.00200	0.00091	0.00100	0.02000	0.03000	0.00000	0.00000	0.05391	
	Micronutrients	0.01890	0.00023	0.00022	0.00086	0.00046	0.00013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.05910	0.00072	0.00070	0.00308	0.00210	0.00055	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.88000	0.02250	0.02150	0.08660	0.04910	0.01330	0.00000	0.00007	0.00020	0.00010	0.00010	0.00300	0.00300	0.00000	0.00000	0.00640	
	NPK for P2O5	0.76500	0.00813	0.00779	0.01760	0.01530	0.00436	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.69800	0.00741	0.00717	0.01850	0.01250	0.00354	0.00000	0.00002	0.00004	0.00003	0.00003	0.00071	0.00080	0.00000	0.00000	0.00161	
	Potash	0.02130	0.00025	0.00024	0.00096	0.00057	0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.38000	0.01520	0.01470	0.04850	0.01810	0.00576	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.59000	0.02680	0.02520	0.05660	0.02340	0.00733	0.00001	0.00009	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	
	Hartford, CT	Boron	0.00254	0.00003	0.00003	0.00016	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.41000	0.00497	0.00483	0.02090	0.01360	0.00356	0.00000	0.00002	0.00005	0.00003	0.00004	0.00100	0.00100	0.00000	0.00000	0.00212
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		45.80000	0.48300	0.44800	0.95300	0.44000	0.15100	0.00010	0.00200	0.00200	0.00091	0.00100	0.02000	0.03000	0.00000	0.00000	0.05391	
Micronutrients		0.01870	0.00022	0.00021	0.00084	0.00044	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
Mn		0.05690	0.00069	0.00067	0.00295	0.00199	0.00054	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
NPK as N		1.81000	0.02250	0.02140	0.08160	0.04740	0.01240	0.00000	0.00007	0.00020	0.00010	0.00010	0.00300	0.00300	0.00000	0.00000	0.00640	
NPK for P2O5		0.73600	0.00762	0.00736	0.01700	0.01450	0.00417	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00070	0.00000	0.00000	0.00181	
P2O5 - 1		0.66900	0.00687	0.00666	0.01770	0.01150	0.00336	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00080	0.00000	0.00000	0.00170	
Potash		0.02110	0.00023	0.00022	0.00092	0.00054	0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00003	0.00000	0.00000	0.00008	
S as Nutrient		1.36000	0.01480	0.01430	0.04680	0.01810	0.00568	0.00000	0.00005	0.00009	0.00005	0.00006	0.00100	0.00100	0.00000	0.00000	0.00220	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		2.47000	0.02520	0.02460	0.05430	0.02290	0.00676	0.00000	0.00008	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	
Houston, TX		Boron	0.00253	0.00003	0.00003	0.00015	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.40800	0.00492	0.00479	0.02000	0.01320	0.00349	0.00000	0.00002	0.00005	0.00003	0.00004	0.00100	0.00090	0.00000	0.00000	0.00202
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	46.60000	0.45600	0.44500	0.93200	0.43000	0.14900	0.00022	0.00200	0.00105	0.00090	0.00100	0.02000	0.02050	0.00000	0.00000	0.04345	
	Micronutrients	0.01830	0.00021	0.00020	0.00083	0.00046	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.05700	0.00068	0.00067	0.00302	0.00202	0.00054	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.83000	0.02180	0.02100	0.08290	0.04700	0.01250	0.00001	0.00007	0.00020	0.00010	0.00010	0.00205	0.00300	0.00000	0.00000	0.00545	
	NPK for P2O5	0.71600	0.00781	0.00759	0.01630	0.01340	0.00420	0.00000	0.00003	0.00003	0.00003	0.00004	0.00100	0.00070	0.00000	0.00000	0.00180	
	P2O5 - 1	0.67200	0.00694	0.00679	0.01730	0.01200	0.00343	0.00000	0.00002	0.00004	0.00002	0.00003	0.00070	0.00080	0.00000	0.00000	0.00159	
	Potash	0.02050	0.00023	0.00023	0.00092	0.00055	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00003	0.00000	0.00000	0.00008	
	S as Nutrient	1.35000	0.01470	0.01430	0.04820	0.01800	0.00521	0.00001	0.00005	0.00008	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00220	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.56000	0.02430	0.02360	0.05560	0.02200	0.00697	0.00001	0.00008	0.00007	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00217	

**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Nickel (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	0.00262	0.00003	0.00003	0.00016	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	Gypsum Products	0.43400	0.00527	0.00504	0.02110	0.01410	0.00368	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	46.90000	0.50700	0.48600	0.97700	0.44900	0.15400	0.00010	0.00200	0.00200	0.00090	0.00100	0.02050	0.03000	0.00000	0.00000	0.05440	
	Micronutrients	0.01920	0.00023	0.00022	0.00087	0.00048	0.00013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.05880	0.00074	0.00070	0.00309	0.00203	0.00055	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.88000	0.02360	0.02170	0.08770	0.05140	0.01340	0.00000	0.00007	0.00020	0.00010	0.00010	0.00300	0.00300	0.00000	0.00000	0.00640	
	NPK for P2O5	0.75200	0.00829	0.00783	0.01750	0.01530	0.00433	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.69600	0.00743	0.00709	0.01820	0.01230	0.00362	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00080	0.00000	0.00000	0.00170	
	Potash	0.02130	0.00025	0.00024	0.00096	0.00056	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.39000	0.01580	0.01510	0.04890	0.01870	0.00569	0.00000	0.00005	0.00010	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00222	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.59000	0.02740	0.02620	0.05740	0.02390	0.00736	0.00001	0.00009	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	
	Las Vegas, NV	Boron	0.00269	0.00003	0.00003	0.00016	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.46000	0.00520	0.00514	0.02180	0.01560	0.00405	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Liming Materials	49.40000	0.50300	0.49600	0.97300	0.48900	0.16600	0.00002	0.00200	0.00200	0.00100	0.00100	0.02000	0.03000	0.00000	0.00000	0.05400
Micronutrients		0.02000	0.00023	0.00023	0.00091	0.00052	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
Mn		0.06140	0.00073	0.00072	0.00321	0.00210	0.00058	0.00000	0.00000	0.00001	0.00001	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
NPK as N		2.05000	0.02310	0.02280	0.09130	0.05090	0.01380	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
NPK for P2O5		0.76100	0.00757	0.00747	0.01810	0.01620	0.00442	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
P2O5 - 1		0.74900	0.00737	0.00724	0.01860	0.01410	0.00404	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
Potash		0.02240	0.00024	0.00024	0.00097	0.00059	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
S as Nutrient		1.48000	0.01620	0.01600	0.05070	0.01910	0.00597	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		2.62000	0.02610	0.02580	0.06130	0.02500	0.00769	0.00000	0.00009	0.00008	0.00005	0.00005	0.00100	0.00105	0.00000	0.00000	0.00223	
Los Angeles, CA		Boron	0.00265	0.00003	0.00003	0.00017	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.44700	0.00538	0.00516	0.02150	0.01460	0.00385	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Liming Materials	49.70000	0.51700	0.50500	0.99500	0.50100	0.16700	0.00003	0.00200	0.00200	0.00100	0.00100	0.02050	0.03000	0.00000	0.00000	0.05450
	Micronutrients	0.01980	0.00024	0.00023	0.00091	0.00051	0.00013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.06010	0.00075	0.00072	0.00317	0.00221	0.00060	0.00000	0.00000	0.00001	0.00001	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	2.04000	0.02470	0.02360	0.08790	0.05080	0.01370	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
	NPK for P2O5	0.75200	0.00848	0.00792	0.01790	0.01620	0.00448	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.71800	0.00754	0.00710	0.01870	0.01410	0.00395	0.00000	0.00003	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
	Potash	0.02200	0.00025	0.00024	0.00096	0.00059	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.46000	0.01680	0.01620	0.05070	0.01940	0.00588	0.00000	0.00005	0.00010	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00222	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.60000	0.02770	0.02700	0.05970	0.02510	0.00794	0.00000	0.00009	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	

**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Nickel (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	0.00249	0.00003	0.00003	0.00015	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001	
	Gypsum Products	0.40600	0.00521	0.00490	0.02040	0.01270	0.00335	0.00000	0.00002	0.00005	0.00003	0.00004	0.00100	0.00090	0.00000	0.00000	0.00202	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	44.90000	0.50600	0.46500	0.88900	0.44500	0.14800	0.00020	0.00200	0.00200	0.00090	0.00100	0.02000	0.02050	0.00000	0.00000	0.04440	
	Micronutrients	0.01820	0.00023	0.00022	0.00080	0.00044	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.05650	0.00073	0.00068	0.00285	0.00190	0.00050	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.75000	0.02370	0.02210	0.07980	0.04740	0.01280	0.00001	0.00007	0.00020	0.00010	0.00010	0.00205	0.00300	0.00000	0.00000	0.00545	
	NPK for P2O5	0.74200	0.00782	0.00732	0.01660	0.01460	0.00390	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.63800	0.00696	0.00642	0.01750	0.01170	0.00347	0.00000	0.00002	0.00004	0.00003	0.00003	0.00070	0.00080	0.00000	0.00000	0.00160	
	Potash	0.02020	0.00025	0.00023	0.00089	0.00052	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00003	0.00000	0.00000	0.00008	
	S as Nutrient	1.32000	0.01520	0.01420	0.04700	0.01830	0.00559	0.00001	0.00005	0.00009	0.00006	0.00006	0.00091	0.00100	0.00000	0.00000	0.00212	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.44000	0.02710	0.02530	0.04900	0.02220	0.00719	0.00001	0.00008	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	
	Miami, FL	Boron	0.00246	0.00003	0.00003	0.00015	0.00010	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
		Gypsum Products	0.38700	0.00463	0.00456	0.01910	0.01230	0.00329	0.00000	0.00002	0.00004	0.00003	0.00004	0.00091	0.00090	0.00000	0.00000	0.00192
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		41.70000	0.39700	0.39000	0.84000	0.40500	0.13400	0.00009	0.00105	0.00100	0.00090	0.00100	0.02000	0.02000	0.00000	0.00000	0.04290	
Micronutrients		0.01700	0.00019	0.00018	0.00075	0.00043	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
Mn		0.05390	0.00064	0.00063	0.00287	0.00181	0.00046	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00021	
NPK as N		1.80000	0.02060	0.02010	0.07480	0.04250	0.01160	0.00001	0.00006	0.00020	0.00010	0.00010	0.00200	0.00300	0.00000	0.00000	0.00540	
NPK for P2O5		0.62400	0.00590	0.00590	0.01640	0.01250	0.00360	0.00000	0.00002	0.00003	0.00002	0.00003	0.00090	0.00070	0.00000	0.00000	0.00168	
P2O5 - 1		0.60400	0.00574	0.00556	0.01540	0.01110	0.00326	0.00000	0.00002	0.00003	0.00002	0.00003	0.00060	0.00071	0.00000	0.00000	0.00139	
Potash		0.01960	0.00021	0.00021	0.00083	0.00051	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
S as Nutrient		1.24000	0.01310	0.01300	0.04360	0.01720	0.00500	0.00000	0.00004	0.00007	0.00005	0.00005	0.00090	0.00100	0.00000	0.00000	0.00207	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		2.16000	0.02160	0.02160	0.04600	0.02100	0.00641	0.00001	0.00008	0.00007	0.00004	0.00005	0.00090	0.00100	0.00000	0.00000	0.00206	
Minneapolis, MN		Boron	0.00265	0.00003	0.00003	0.00016	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.44000	0.00553	0.00520	0.02160	0.01470	0.00400	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	47.90000	0.54300	0.52100	1.01000	0.50400	0.16900	0.00008	0.00200	0.00200	0.00100	0.00100	0.03000	0.03000	0.00000	0.00000	0.06400	
	Micronutrients	0.01970	0.00024	0.00023	0.00090	0.00050	0.00013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.06020	0.00079	0.00074	0.00319	0.00215	0.00058	0.00000	0.00000	0.00001	0.00001	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	2.00000	0.02500	0.02340	0.08650	0.05230	0.01390	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
	NPK for P2O5	0.77000	0.00864	0.00797	0.01780	0.01570	0.00488	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.71700	0.00803	0.00746	0.01840	0.01380	0.00381	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
	Potash	0.02200	0.00027	0.00025	0.00097	0.00059	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.45000	0.01710	0.01600	0.05010	0.01940	0.00573	0.00000	0.00005	0.00010	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00222	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.60000	0.02920	0.02720	0.05860	0.02420	0.00768	0.00000	0.00009	0.00009	0.00006	0.00005	0.00100	0.00200	0.00000	0.00000	0.00320	

**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Nickel (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	0.00257	0.00003	0.00003	0.00016	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	Gypsum Products	0.42100	0.00504	0.00487	0.02110	0.01340	0.00365	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	45.60000	0.47800	0.45400	0.91600	0.42800	0.15000	0.00011	0.00200	0.00200	0.00091	0.00100	0.02000	0.03000	0.00000	0.00000	0.05391	
	Micronutrients	0.01860	0.00022	0.00021	0.00082	0.00046	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.05800	0.00073	0.00070	0.00305	0.00203	0.00055	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.83000	0.02220	0.02140	0.08620	0.05130	0.01290	0.00001	0.00007	0.00020	0.00010	0.00010	0.000205	0.00300	0.00000	0.00000	0.00545	
	NPK for P2O5	0.75100	0.00801	0.00773	0.01720	0.01480	0.00420	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00071	0.00000	0.00000	0.00182	
	P2O5 - 1	0.67400	0.00705	0.00680	0.01770	0.01210	0.00361	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00080	0.00000	0.00000	0.00170	
	Potash	0.02090	0.00024	0.00023	0.00094	0.00054	0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00003	0.00000	0.00000	0.00008	
	S as Nutrient	1.38000	0.01540	0.01490	0.04810	0.01790	0.00539	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.56000	0.02640	0.02520	0.05440	0.02320	0.00714	0.00001	0.00009	0.00007	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00217	
	Phoenix, AZ	Boron	0.00273	0.00003	0.00003	0.00017	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.45600	0.00527	0.00519	0.02170	0.01530	0.00392	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		49.70000	0.52200	0.50800	1.02000	0.51000	0.16900	0.00002	0.00200	0.00200	0.00100	0.00100	0.02050	0.03000	0.00000	0.00000	0.05450	
Micronutrients		0.02030	0.00023	0.00022	0.00094	0.00054	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
Mn		0.06200	0.00074	0.00073	0.00322	0.00223	0.00060	0.00000	0.00000	0.00001	0.00001	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
NPK as N		2.06000	0.02340	0.02290	0.09060	0.05140	0.01340	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
NPK for P2O5		0.76800	0.00786	0.00773	0.01840	0.01610	0.00435	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
P2O5 - 1		0.73200	0.00727	0.00707	0.01900	0.01390	0.00393	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
Potash		0.02210	0.00024	0.00024	0.00099	0.00057	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
S as Nutrient		1.48000	0.01630	0.01600	0.05110	0.01970	0.00600	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		2.62000	0.02630	0.02580	0.06160	0.02530	0.00772	0.00000	0.00009	0.00008	0.00005	0.00005	0.00100	0.00105	0.00000	0.00000	0.00223	
Portland, ME		Boron	0.00247	0.00003	0.00003	0.00015	0.00010	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.39900	0.00519	0.00491	0.02020	0.01220	0.00329	0.00000	0.00002	0.00005	0.00003	0.00004	0.00100	0.00090	0.00000	0.00000	0.00202
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	42.50000	0.48700	0.43900	0.88900	0.42800	0.14200	0.00007	0.00200	0.00200	0.00090	0.00091	0.02000	0.02050	0.00000	0.00000	0.04431	
	Micronutrients	0.01770	0.00022	0.00021	0.00080	0.00044	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.05490	0.00072	0.00068	0.00285	0.00188	0.00050	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.75000	0.02260	0.02140	0.07860	0.04620	0.01260	0.00000	0.00006	0.00020	0.00010	0.00010	0.00205	0.00300	0.00000	0.00000	0.00545	
	NPK for P2O5	0.70700	0.00760	0.00715	0.01610	0.01390	0.00391	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00070	0.00000	0.00000	0.00181	
	P2O5 - 1	0.63900	0.00718	0.00645	0.01690	0.01160	0.00335	0.00000	0.00002	0.00004	0.00003	0.00003	0.00070	0.00080	0.00000	0.00000	0.00160	
	Potash	0.01990	0.00024	0.00023	0.00091	0.00053	0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00003	0.00000	0.00000	0.00007	
	S as Nutrient	1.28000	0.01500	0.01420	0.04460	0.01800	0.00528	0.00000	0.00005	0.00009	0.00006	0.00006	0.00091	0.00100	0.00000	0.00000	0.00212	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.44000	0.02630	0.02470	0.05090	0.02230	0.00696	0.00000	0.00008	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	

**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Nickel (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	0.00254	0.00003	0.00003	0.00015	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	Gypsum Products	0.41400	0.00542	0.00506	0.02050	0.01360	0.00362	0.00000	0.00002	0.00005	0.00003	0.00004	0.00100	0.00100	0.00000	0.00000	0.00212	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	44.50000	0.51900	0.48000	0.91400	0.44600	0.15400	0.00014	0.00200	0.00200	0.00100	0.00100	0.03000	0.03000	0.00000	0.00000	0.06400	
	Micronutrients	0.01860	0.00024	0.00022	0.00082	0.00046	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.05710	0.00076	0.00070	0.00292	0.00198	0.00053	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	1.84000	0.02470	0.02190	0.08350	0.05160	0.01340	0.00001	0.00007	0.00020	0.00010	0.00010	0.00300	0.00300	0.00000	0.00000	0.00640	
	NPK for P2O5	0.75100	0.00845	0.00790	0.01690	0.01440	0.00438	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00071	0.00000	0.00000	0.00182	
	P2O5 - 1	0.67600	0.00749	0.00703	0.01780	0.01220	0.00364	0.00000	0.00002	0.00004	0.00003	0.00003	0.00071	0.00080	0.00000	0.00000	0.00161	
	Potash	0.02050	0.00026	0.00024	0.00094	0.00055	0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00003	0.00000	0.00000	0.00008	
	S as Nutrient	1.34000	0.01690	0.01530	0.04670	0.01860	0.00576	0.00000	0.00005	0.00010	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00222	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.50000	0.02790	0.02610	0.05460	0.02350	0.00751	0.00001	0.00009	0.00008	0.00005	0.00005	0.00100	0.00105	0.00000	0.00000	0.00223	
	Salem, OR	Boron	0.00258	0.00003	0.00003	0.00016	0.00011	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.41600	0.00508	0.00490	0.01990	0.01330	0.00356	0.00000	0.00002	0.00005	0.00003	0.00004	0.00100	0.00100	0.00000	0.00000	0.00212
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		47.30000	0.46600	0.44300	0.97900	0.45400	0.15200	0.00004	0.00200	0.00200	0.00090	0.00100	0.02000	0.03000	0.00000	0.00000	0.05390	
Micronutrients		0.01840	0.00022	0.00021	0.00083	0.00048	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
Mn		0.05750	0.00070	0.00067	0.00299	0.00198	0.00054	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
NPK as N		1.83000	0.02240	0.02140	0.08300	0.04580	0.01240	0.00000	0.00007	0.00020	0.00010	0.00010	0.00300	0.00300	0.00000	0.00000	0.00640	
NPK for P2O5		0.74000	0.00777	0.00740	0.01700	0.01490	0.00433	0.00000	0.00003	0.00004	0.00003	0.00004	0.00091	0.00070	0.00000	0.00000	0.00172	
P2O5 - 1		0.68300	0.00689	0.00684	0.01730	0.01190	0.00345	0.00000	0.00002	0.00004	0.00003	0.00003	0.00071	0.00080	0.00000	0.00000	0.00161	
Potash		0.02080	0.00024	0.00023	0.00093	0.00055	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
S as Nutrient		1.37000	0.01540	0.01480	0.04770	0.01790	0.00562	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		2.50000	0.02570	0.02490	0.05580	0.02310	0.00699	0.00000	0.00008	0.00008	0.00005	0.00005	0.00100	0.00100	0.00000	0.00000	0.00218	
Salt Lake City, UT		Boron	0.00277	0.00004	0.00003	0.00017	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.46600	0.00569	0.00539	0.02200	0.01600	0.00410	0.00000	0.00002	0.00005	0.00004	0.00005	0.00100	0.00100	0.00000	0.00000	0.00214
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	51.20000	0.57300	0.53300	1.02000	0.52000	0.17200	0.00002	0.00200	0.00200	0.00100	0.00100	0.03000	0.03000	0.00000	0.00000	0.06400	
	Micronutrients	0.02050	0.00024	0.00023	0.00096	0.00055	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00003	0.00000	0.00000	0.00008	
	Mn	0.06300	0.00079	0.00076	0.00329	0.00220	0.00059	0.00000	0.00000	0.00001	0.00001	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	2.08000	0.02480	0.02370	0.09080	0.05320	0.01450	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
	NPK for P2O5	0.79500	0.00894	0.00800	0.01910	0.01730	0.00454	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.74000	0.00810	0.00751	0.01860	0.01430	0.00406	0.00000	0.00003	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
	Potash	0.02310	0.00026	0.00025	0.00100	0.00064	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.52000	0.01750	0.01670	0.05250	0.02000	0.00627	0.00000	0.00005	0.00010	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00222	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.67000	0.02870	0.02740	0.06340	0.02610	0.00817	0.00000	0.00009	0.00009	0.00005	0.00005	0.00100	0.00200	0.00000	0.00000	0.00319	

**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Nickel (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	0.00268	0.00003	0.00003	0.00016	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	Gypsum Products	0.45300	0.00523	0.00509	0.02140	0.01460	0.00382	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	50.50000	0.50900	0.49700	1.03000	0.50000	0.16600	0.00003	0.00200	0.00200	0.00100	0.00100	0.02000	0.03000	0.00000	0.00000	0.05400	
	Micronutrients	0.01970	0.00023	0.00022	0.00090	0.00050	0.00013	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
	Mn	0.06090	0.00073	0.00071	0.00314	0.00216	0.00058	0.00000	0.00000	0.00001	0.00000	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
	NPK as N	2.05000	0.02400	0.02350	0.08810	0.05090	0.01320	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00300	0.00000	0.00000	0.00650	
	NPK for P2O5	0.77200	0.00820	0.00794	0.01840	0.01600	0.00444	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
	P2O5 - 1	0.71300	0.00710	0.00685	0.01880	0.01360	0.00393	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
	Potash	0.02230	0.00024	0.00024	0.00097	0.00057	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
	S as Nutrient	1.47000	0.01620	0.01590	0.05070	0.01940	0.00601	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2.58000	0.02670	0.02610	0.06030	0.02460	0.00747	0.00000	0.00009	0.00008	0.00005	0.00005	0.00100	0.00105	0.00000	0.00000	0.00223	
	Winnemucca, NV	Boron	0.00274	0.00003	0.00003	0.00017	0.00012	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
		Gypsum Products	0.45600	0.00503	0.00501	0.02190	0.01460	0.00385	0.00000	0.00002	0.00005	0.00003	0.00005	0.00100	0.00100	0.00000	0.00000	0.00213
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		49.00000	0.49800	0.49100	1.00000	0.44900	0.15600	0.00001	0.00200	0.00200	0.00100	0.00100	0.02000	0.03000	0.00000	0.00000	0.05400	
Micronutrients		0.01990	0.00023	0.00022	0.00093	0.00053	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006	
Mn		0.06150	0.00071	0.00071	0.00315	0.00215	0.00058	0.00000	0.00000	0.00001	0.00001	0.00001	0.00010	0.00010	0.00000	0.00000	0.00022	
NPK as N		2.11000	0.02330	0.02310	0.09160	0.05080	0.01380	0.00000	0.00008	0.00020	0.00010	0.00020	0.00300	0.00305	0.00000	0.00000	0.00655	
NPK for P2O5		0.78400	0.00773	0.00766	0.01860	0.01510	0.00431	0.00000	0.00003	0.00004	0.00003	0.00004	0.00100	0.00080	0.00000	0.00000	0.00191	
P2O5 - 1		0.72700	0.00722	0.00717	0.01890	0.01370	0.00398	0.00000	0.00002	0.00004	0.00003	0.00003	0.00080	0.00090	0.00000	0.00000	0.00180	
Potash		0.02270	0.00024	0.00024	0.00097	0.00059	0.00016	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00009	
S as Nutrient		1.48000	0.01600	0.01590	0.05150	0.01950	0.00593	0.00000	0.00005	0.00009	0.00006	0.00006	0.00100	0.00100	0.00000	0.00000	0.00221	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		2.57000	0.02570	0.02550	0.06110	0.02490	0.00799	0.00000	0.00009	0.00008	0.00005	0.00005	0.00100	0.00105	0.00000	0.00000	0.00223	

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.