

US EPA ARCHIVE DOCUMENT



**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products  
Copper (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 <sup>1</sup>
Bismarck, ND	Boron	0.00738	0.00259	0.00259	0.00403	0.00085	0.00022	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	3.22000	0.95600	0.95600	1.66000	0.28500	0.07050	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	150.00000	21.20000	21.20000	65.10000	5.12000	1.62000	0	0.00030	0.00002	0.00000	0.00000	0.00020	0.00050	0.00000	0.00000	0.00073
	Micronutrients	27.60000	7.11000	7.11000	13.20000	2.41000	0.60900	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01830	0.00394	0.00394	0.00823	0.00118	0.00031	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	4.50000	1.17000	1.17000	2.04000	0.32400	0.09670	0	0.00010	0.00001	0.00000	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031
	NPK for P2O5	2.05000	0.26200	0.26200	0.54000	0.06450	0.02030	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	0.00004
	P2O5 - 1	0.93100	0.21000	0.21000	0.45500	0.05700	0.01830	0	0.00004	0.00000	0.00000	0.00000	0.00004	0.00007	0.00000	0.00000	0.00011
	Potash	0.01830	0.00394	0.00394	0.00861	0.00109	0.00033	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.09430	0.02180	0.02180	0.04060	0.00503	0.00136	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.54000	0.66800	0.66800	1.14000	0.19400	0.05160	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
	Boise, ID	Boron	0.00866	0.00331	0.00330	0.00522	0.00117	0.00029	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		4.48000	1.30000	1.30000	2.30000	0.41600	0.10800	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		236.00000	33.70000	33.60000	93.30000	7.53000	2.49000	0	0.00100	0.00020	0.00002	0.00001	0.00100	0.00300	0.00000	0.00000	0.00423
Micronutrients		36.30000	9.09000	9.08000	17.50000	3.27000	0.85500	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mn		0.02350	0.00504	0.00504	0.01130	0.00159	0.00042	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
NPK as N		6.73000	1.53000	1.53000	2.97000	0.47800	0.13400	0	0.00050	0.00007	0.00001	0.00001	0.00060	0.00100	0.00000	0.00000	0.00169
NPK for P2O5		2.99000	0.37800	0.37200	0.97500	0.09440	0.03640	0	0.00007	0.00001	0.00000	0.00000	0.00007	0.00010	0.00000	0.00000	0.00018
P2O5 - 1		1.05000	0.28600	0.28600	0.56200	0.09300	0.02740	0	0.00020	0.00003	0.00000	0.00000	0.00020	0.00040	0.00000	0.00000	0.00064
Potash		0.02700	0.00635	0.00632	0.01160	0.00156	0.00046	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.12200	0.03020	0.03010	0.05480	0.00707	0.00193	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		3.18000	0.86500	0.86400	1.54000	0.29900	0.07550	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00005	0.00000	0.00000	0.00007
Boulder, CO		Boron	0.00809	0.00303	0.00303	0.00471	0.00108	0.00026	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	4.09000	1.17000	1.16000	2.09000	0.37900	0.09680	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	216.00000	29.20000	29.10000	87.00000	6.86000	2.34000	0	0.00080	0.00010	0.00001	0.00001	0.00080	0.00200	0.00000	0.00000	0.00292
	Micronutrients	34.00000	8.29000	8.27000	15.90000	2.91000	0.74300	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.02200	0.00473	0.00472	0.01040	0.00151	0.00039	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	5.98000	1.39000	1.39000	2.50000	0.44100	0.12200	0	0.00030	0.00004	0.00001	0.00000	0.00030	0.00070	0.00000	0.00000	0.00105
	NPK for P2O5	2.55000	0.35200	0.35200	0.83700	0.09100	0.03140	0	0.00004	0.00001	0.00000	0.00000	0.00004	0.00009	0.00000	0.00000	0.00014
	P2O5 - 1	1.04000	0.25300	0.25300	0.53900	0.08310	0.02600	0	0.00010	0.00002	0.00000	0.00000	0.00010	0.00030	0.00000	0.00000	0.00042
	Potash	0.02410	0.00560	0.00559	0.01110	0.00143	0.00044	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.11100	0.02720	0.02720	0.05010	0.00618	0.00178	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	3.02000	0.82300	0.82100	1.44000	0.27000	0.07210	0	0.00001	0.00000	0.00000	0.00000	0.00002	0.00003	0.00000	0.00000	0.00005

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Casper, WY	Boron	0.00760	0.00278	0.00277	0.00422	0.00092	0.00023	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	3.62000	1.04000	1.04000	1.82000	0.32300	0.07960	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	176.00000	23.90000	23.90000	73.80000	5.84000	1.85000	0	0.00040	0.00003	0.00001	0.00000	0.00040	0.00080	0.00000	0.00000	0.00124
	Micronutrients	30.00000	7.70000	7.69000	14.30000	2.65000	0.65000	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01930	0.00423	0.00423	0.00896	0.00133	0.00034	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	4.78000	1.26000	1.26000	2.26000	0.36800	0.10300	0	0.00020	0.00001	0.00000	0.00000	0.00020	0.00030	0.00000	0.00000	0.00051
	NPK for P2O5	2.19000	0.32700	0.32400	0.71200	0.07320	0.02400	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00004	0.00000	0.00000	0.00006
	P2O5 - 1	0.92600	0.22400	0.22400	0.49900	0.06520	0.02290	0	0.00006	0.00001	0.00000	0.00000	0.00006	0.00010	0.00000	0.00000	0.00017
	Potash	0.02020	0.00441	0.00441	0.00944	0.00120	0.00038	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.09920	0.02430	0.02430	0.04470	0.00542	0.00150	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.65000	0.71200	0.71200	1.23000	0.22800	0.05850	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Charleston, SC	Boron	0.00643	0.00198	0.00198	0.00341	0.00062	0.00015	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		2.48000	0.67100	0.67100	1.23000	0.19000	0.05130	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		71.90000	12.10000	11.90000	33.50000	3.00000	1.08000	0	0.00008	0.00002	0.00000	0.00000	0.00009	0.00020	0.00000	0.00000	0.00031
Micronutrients		22.80000	5.27000	5.26000	10.40000	1.70000	0.44100	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mn		0.01370	0.00272	0.00272	0.00638	0.00076	0.00021	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
NPK as N		3.22000	0.92700	0.92600	1.31000	0.20300	0.05660	0	0.00003	0.00001	0.00000	0.00000	0.00004	0.00008	0.00000	0.00000	0.00013
NPK for P2O5		1.08000	0.17100	0.17000	0.34200	0.03900	0.01300	0	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
P2O5 - 1		0.61400	0.13300	0.13300	0.31600	0.03850	0.01150	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	0.00004
Potash		0.01240	0.00241	0.00240	0.00559	0.00080	0.00022	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.07600	0.01510	0.01500	0.02890	0.00321	0.00102	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		2.06000	0.48800	0.48800	0.87400	0.12000	0.03320	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
Chicago, IL		Boron	0.00699	0.00226	0.00226	0.00374	0.00073	0.00019	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	2.71000	0.79100	0.79000	1.38000	0.23500	0.06100	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	93.30000	15.80000	15.60000	45.10000	3.91000	1.28000	0	0.00010	0.00003	0.00000	0.00000	0.00010	0.00030	0.00000	0.00000	0.00043
	Micronutrients	25.20000	5.83000	5.81000	11.50000	1.98000	0.52500	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01580	0.00315	0.00314	0.00715	0.00090	0.00024	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	3.94000	1.03000	1.03000	1.53000	0.25900	0.07320	0	0.00005	0.00001	0.00000	0.00000	0.00005	0.00010	0.00000	0.00000	0.00016
	NPK for P2O5	1.36000	0.19300	0.19200	0.42500	0.04560	0.01680	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
	P2O5 - 1	0.71800	0.16300	0.16300	0.36100	0.04490	0.01330	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00004	0.00000	0.00000	0.00006
	Potash	0.01470	0.00315	0.00314	0.00667	0.00090	0.00026	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.08280	0.01760	0.01740	0.03310	0.00393	0.00121	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.31000	0.58900	0.58500	0.99100	0.15400	0.04010	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001

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Cleveland, OH	Boron	0.00691	0.00220	0.00219	0.00369	0.00071	0.00018	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	2.68000	0.78500	0.78300	1.39000	0.23000	0.05830	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	92.50000	15.20000	15.10000	41.60000	3.72000	1.25000	0	0.00010	0.00003	0.00000	0.00000	0.00010	0.00030	0.00000	0.00000	0.00044
	Micronutrients	24.70000	5.75000	5.73000	11.50000	1.95000	0.52300	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01550	0.00310	0.00308	0.00693	0.00089	0.00023	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	3.97000	1.01000	1.01000	1.47000	0.24000	0.06800	0	0.00004	0.00001	0.00000	0.00000	0.00005	0.00010	0.00000	0.00000	0.00016
	NPK for P2O5	1.35000	0.18700	0.18400	0.42100	0.04590	0.01660	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
	P2O5 - 1	0.69000	0.15800	0.15800	0.34800	0.04420	0.01300	0	0.00002	0.00001	0.00000	0.00000	0.00002	0.00004	0.00000	0.00000	0.00007
	Potash	0.01430	0.00309	0.00308	0.00639	0.00087	0.00026	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.08180	0.01710	0.01710	0.03370	0.00395	0.00118	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.24000	0.56300	0.56200	0.99600	0.15100	0.03870	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
	Fresno, CA	Boron	0.00843	0.00327	0.00327	0.00506	0.00113	0.00028	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		4.40000	1.25000	1.25000	2.25000	0.40000	0.10600	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		232.00000	31.50000	31.40000	89.30000	7.47000	2.50000	0	0.00100	0.00020	0.00002	0.00001	0.00100	0.00300	0.00000	0.00000	0.00423
Micronutrients		34.80000	8.76000	8.75000	16.80000	3.16000	0.80200	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mn		0.02270	0.00481	0.00480	0.01080	0.00156	0.00041	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
NPK as N		6.73000	1.51000	1.50000	2.90000	0.44000	0.12500	0	0.00050	0.00006	0.00001	0.00001	0.00050	0.00100	0.00000	0.00000	0.00157
NPK for P2O5		2.90000	0.36300	0.36200	0.95000	0.09390	0.03530	0	0.00007	0.00001	0.00000	0.00000	0.00007	0.00010	0.00000	0.00000	0.00018
P2O5 - 1		1.08000	0.28600	0.28500	0.56900	0.09000	0.02640	0	0.00020	0.00002	0.00000	0.00000	0.00020	0.00040	0.00000	0.00000	0.00063
Potash		0.02590	0.00633	0.00631	0.01140	0.00148	0.00046	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.11800	0.02870	0.02870	0.05230	0.00670	0.00180	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		3.11000	0.83000	0.82900	1.50000	0.29500	0.07470	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00005	0.00000	0.00000	0.00007
Grand Island, NE		Boron	0.00743	0.00264	0.00264	0.00409	0.00087	0.00022	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	3.29000	0.96400	0.96300	1.66000	0.30200	0.07320	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	151.00000	21.80000	21.80000	67.30000	5.21000	1.68000	0	0.00030	0.00002	0.00000	0.00000	0.00030	0.00050	0.00000	0.00000	0.00083
	Micronutrients	28.90000	7.36000	7.36000	13.50000	2.52000	0.63000	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01840	0.00409	0.00409	0.00820	0.00124	0.00031	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	4.53000	1.20000	1.20000	2.10000	0.32800	0.10300	0	0.00010	0.00001	0.00000	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031
	NPK for P2O5	2.09000	0.26400	0.26400	0.57700	0.06710	0.02240	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	0.00004
	P2O5 - 1	0.90300	0.21400	0.21400	0.46100	0.06340	0.01860	0	0.00004	0.00000	0.00000	0.00000	0.00004	0.00007	0.00000	0.00000	0.00011
	Potash	0.01890	0.00408	0.00408	0.00899	0.00114	0.00034	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.09630	0.02180	0.02170	0.04270	0.00511	0.00142	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.51000	0.70500	0.70500	1.18000	0.19400	0.05170	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001



**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products  
Copper (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 <sup>1</sup>
Huntington, WV	Boron	0.00682	0.00211	0.00210	0.00362	0.00067	0.00017	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	2.64000	0.72100	0.72000	1.34000	0.20800	0.05610	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	79.20000	13.20000	13.00000	38.10000	3.23000	1.13000	0	0.00009	0.00001	0.00000	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031
	Micronutrients	24.30000	5.69000	5.68000	10.90000	1.84000	0.48200	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01480	0.00291	0.00290	0.00678	0.00082	0.00022	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	3.69000	0.99700	0.99600	1.38000	0.22500	0.06060	0	0.00004	0.00001	0.00000	0.00000	0.00004	0.00008	0.00000	0.00000	0.00013
	NPK for P2O5	1.16000	0.18000	0.17900	0.36700	0.04150	0.01500	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	P2O5 - 1	0.65200	0.14500	0.14400	0.34300	0.04180	0.01250	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	0.00004
	Potash	0.01370	0.00268	0.00268	0.00599	0.00083	0.00024	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.08120	0.01640	0.01640	0.03130	0.00348	0.00111	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.20000	0.52000	0.51900	0.94100	0.13400	0.03620	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	Las Vegas, NV	Boron	0.00830	0.00319	0.00318	0.00498	0.00114	0.00028	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		4.35000	1.23000	1.23000	2.22000	0.39900	0.10400	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		230.00000	32.60000	32.60000	90.50000	7.26000	2.43000	0	0.00100	0.00009	0.00001	0.00001	0.00100	0.00200	0.00000	0.00000	0.00311
Micronutrients		35.80000	8.80000	8.79000	16.90000	3.15000	0.80900	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mn		0.02290	0.00475	0.00475	0.01090	0.00153	0.00041	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
NPK as N		6.63000	1.50000	1.49000	2.90000	0.44300	0.12500	0	0.00050	0.00004	0.00001	0.00001	0.00050	0.00100	0.00000	0.00000	0.00155
NPK for P2O5		2.82000	0.36000	0.36000	0.92200	0.09280	0.03530	0	0.00006	0.00001	0.00000	0.00000	0.00006	0.00010	0.00000	0.00000	0.00017
P2O5 - 1		1.08000	0.28800	0.28700	0.55100	0.08710	0.02640	0	0.00020	0.00001	0.00000	0.00000	0.00020	0.00030	0.00000	0.00000	0.00051
Potash		0.02570	0.00624	0.00623	0.01120	0.00148	0.00044	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.11800	0.02890	0.02890	0.05160	0.00667	0.00186	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		3.12000	0.83800	0.83700	1.48000	0.28700	0.07470	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00004	0.00000	0.00000	0.00006
Los Angeles, CA		Boron	0.00759	0.00285	0.00285	0.00426	0.00097	0.00024	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	3.67000	1.06000	1.06000	1.86000	0.32500	0.08040	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	181.00000	25.30000	25.20000	74.70000	5.91000	1.97000	0	0.00040	0.00007	0.00001	0.00000	0.00050	0.00100	0.00000	0.00000	0.00158
	Micronutrients	30.70000	7.62000	7.60000	14.70000	2.73000	0.67900	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01980	0.00426	0.00425	0.00915	0.00135	0.00036	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	4.98000	1.27000	1.26000	2.36000	0.38200	0.10300	0	0.00020	0.00003	0.00000	0.00000	0.00020	0.00040	0.00000	0.00000	0.00064
	NPK for P2O5	2.24000	0.32000	0.31900	0.74600	0.07580	0.02480	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00005	0.00000	0.00000	0.00007
	P2O5 - 1	0.97600	0.22800	0.22800	0.51400	0.06710	0.02440	0	0.00006	0.00001	0.00000	0.00000	0.00007	0.00010	0.00000	0.00000	0.00018
	Potash	0.02060	0.00435	0.00435	0.00964	0.00119	0.00038	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.09930	0.02400	0.02390	0.04510	0.00556	0.00157	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.70000	0.72600	0.72600	1.24000	0.23900	0.06130	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003

**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products  
Copper (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 <sup>1</sup>
Memphis, TN	Boron	0.00633	0.00191	0.00190	0.00331	0.00058	0.00015	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	2.43000	0.63100	0.62900	1.14000	0.17400	0.04960	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	61.80000	10.90000	10.90000	30.50000	2.77000	0.97100	0	0.00006	0.00001	0.00000	0.00000	0.00007	0.00010	0.00000	0.00000	0.00018
	Micronutrients	22.20000	5.14000	5.12000	9.88000	1.57000	0.41700	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01320	0.00258	0.00257	0.00611	0.00077	0.00020	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	3.09000	0.87800	0.87300	1.30000	0.19400	0.05360	0	0.00003	0.00001	0.00000	0.00000	0.00003	0.00006	0.00000	0.00000	0.00010
	NPK for P2O5	0.94200	0.15900	0.15700	0.31500	0.03530	0.01120	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
	P2O5 - 1	0.59500	0.13000	0.12900	0.30400	0.03820	0.01070	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
	Potash	0.01100	0.00236	0.00236	0.00497	0.00077	0.00020	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.07090	0.01320	0.01310	0.02790	0.00302	0.00094	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	1.99000	0.46000	0.45900	0.84100	0.11100	0.03150	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Miami, FL	Boron	0.00625	0.00188	0.00187	0.00321	0.00060	0.00015	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		2.42000	0.63900	0.63800	1.21000	0.18900	0.04960	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		68.60000	11.30000	11.30000	31.30000	2.77000	0.98900	0	0.00008	0.00001	0.00000	0.00000	0.00008	0.00020	0.00000	0.00000	0.00029
Micronutrients		22.60000	4.91000	4.90000	10.00000	1.57000	0.41100	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mn		0.01320	0.00263	0.00263	0.00609	0.00070	0.00020	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
NPK as N		3.09000	0.76900	0.76900	1.31000	0.19900	0.05630	0	0.00003	0.00000	0.00000	0.00000	0.00003	0.00006	0.00000	0.00000	0.00009
NPK for P2O5		1.09000	0.16100	0.16100	0.34800	0.03450	0.01190	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
P2O5 - 1		0.57300	0.13800	0.13700	0.30500	0.03600	0.01130	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
Potash		0.01120	0.00238	0.00238	0.00540	0.00068	0.00021	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.06970	0.01430	0.01430	0.02820	0.00321	0.00099	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		1.84000	0.43400	0.43400	0.85500	0.11600	0.03040	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Minneapolis, MN		Boron	0.00726	0.00246	0.00246	0.00389	0.00082	0.00021	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	3.03000	0.90800	0.90600	1.59000	0.27000	0.06730	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	137.00000	19.40000	19.20000	62.20000	4.73000	1.55000	0	0.00020	0.00003	0.00000	0.00000	0.00020	0.00040	0.00000	0.00000	0.00064
	Micronutrients	27.00000	6.81000	6.79000	12.80000	2.34000	0.58900	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01720	0.00384	0.00383	0.00776	0.00111	0.00029	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	4.28000	1.17000	1.17000	1.82000	0.30800	0.09430	0	0.00008	0.00001	0.00000	0.00000	0.00009	0.00020	0.00000	0.00000	0.00030
	NPK for P2O5	1.87000	0.24200	0.24000	0.52100	0.06050	0.02170	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
	P2O5 - 1	0.84600	0.19400	0.19300	0.41700	0.05840	0.01610	0	0.00003	0.00001	0.00000	0.00000	0.00003	0.00006	0.00000	0.00000	0.00010
	Potash	0.01670	0.00374	0.00373	0.00819	0.00104	0.00030	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.09290	0.01900	0.01900	0.03940	0.00467	0.00129	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.48000	0.65100	0.64900	1.10000	0.18100	0.04900	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001





**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products  
Copper (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 <sup>1</sup>
Raleigh-Durham, NC	Boron	0.00644	0.00203	0.00202	0.00347	0.00065	0.00017	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	2.55000	0.70600	0.70400	1.30000	0.20800	0.05580	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	78.40000	13.70000	13.30000	37.50000	3.24000	1.14000	0	0.00009	0.00003	0.00000	0.00000	0.00010	0.00030	0.00000	0.00000	0.00043
	Micronutrients	23.50000	5.52000	5.48000	10.70000	1.79000	0.46200	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01420	0.00277	0.00276	0.00663	0.00081	0.00022	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	3.62000	0.96300	0.96200	1.34000	0.21000	0.05700	0	0.00004	0.00001	0.00000	0.00000	0.00005	0.00010	0.00000	0.00000	0.00016
	NPK for P2O5	1.14000	0.18000	0.17900	0.35600	0.04160	0.01470	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	P2O5 - 1	0.63800	0.14200	0.14100	0.32300	0.04020	0.01230	0	0.00001	0.00001	0.00000	0.00000	0.00002	0.00004	0.00000	0.00000	0.00007
	Potash	0.01330	0.00265	0.00264	0.00572	0.00081	0.00023	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.07650	0.01570	0.01570	0.03070	0.00344	0.00108	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.11000	0.51600	0.51400	0.91200	0.13200	0.03400	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
	Salem, OR	Boron	0.00660	0.00208	0.00207	0.00354	0.00067	0.00018	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		2.49000	0.71800	0.71800	1.32000	0.21000	0.05670	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		83.80000	13.60000	13.50000	39.10000	3.33000	1.13000	0	0.00009	0.00001	0.00000	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031
Micronutrients		24.20000	5.43000	5.42000	11.00000	1.83000	0.48200	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mn		0.01470	0.00291	0.00291	0.00679	0.00081	0.00022	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
NPK as N		3.73000	1.00000	1.00000	1.39000	0.22000	0.05880	0	0.00004	0.00000	0.00000	0.00000	0.00004	0.00008	0.00000	0.00000	0.00013
NPK for P2O5		1.21000	0.17400	0.17300	0.37000	0.04190	0.01470	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
P2O5 - 1		0.66600	0.14800	0.14800	0.34400	0.04130	0.01230	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	0.00004
Potash		0.01380	0.00277	0.00277	0.00606	0.00083	0.00023	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.07900	0.01640	0.01640	0.03160	0.00354	0.00112	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		2.18000	0.52900	0.52800	0.93400	0.13800	0.03570	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
Salt Lake City, UT		Boron	0.00866	0.00337	0.00337	0.00524	0.00118	0.00030	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	4.53000	1.31000	1.31000	2.34000	0.43500	0.10800	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	233.00000	32.60000	32.50000	94.40000	7.63000	2.54000	0	0.00100	0.00020	0.00003	0.00001	0.00200	0.00300	0.00000	0.00000	0.00524
	Micronutrients	36.70000	9.34000	9.32000	17.30000	3.20000	0.81700	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.02360	0.00494	0.00492	0.01120	0.00160	0.00041	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	6.89000	1.53000	1.52000	3.00000	0.46500	0.13100	0	0.00060	0.00009	0.00001	0.00001	0.00060	0.00100	0.00000	0.00000	0.00171
	NPK for P2O5	2.90000	0.39500	0.39200	0.92200	0.09830	0.03630	0	0.00008	0.00001	0.00000	0.00000	0.00008	0.00020	0.00000	0.00000	0.00029
	P2O5 - 1	1.12000	0.30900	0.30900	0.56400	0.09450	0.02760	0	0.00020	0.00003	0.00000	0.00000	0.00020	0.00050	0.00000	0.00000	0.00074
	Potash	0.02700	0.00634	0.00633	0.01190	0.00151	0.00045	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.12200	0.02930	0.02930	0.05540	0.00687	0.00197	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	3.28000	0.87800	0.87700	1.57000	0.30600	0.07620	0	0.00003	0.00000	0.00000	0.00000	0.00003	0.00006	0.00000	0.00000	0.00009

**95th Percentile Media Concentrations and Risks from Application of Fertilizer Products  
Copper (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 <sup>1</sup>
San Francisco, CA	Boron	0.00774	0.00286	0.00286	0.00426	0.00098	0.00024	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	3.76000	1.06000	1.06000	1.90000	0.33800	0.08530	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	189.00000	25.00000	25.00000	78.70000	5.84000	2.05000	0	0.00050	0.00005	0.00001	0.00001	0.00050	0.00100	0.00000	0.00000	0.00156
	Micronutrients	30.40000	7.77000	7.76000	14.50000	2.67000	0.66300	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.01930	0.00415	0.00414	0.00933	0.00131	0.00032	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	5.37000	1.29000	1.28000	2.39000	0.38600	0.10900	0	0.00020	0.00002	0.00000	0.00000	0.00020	0.00040	0.00000	0.00000	0.00063
	NPK for P2O5	2.28000	0.32600	0.32600	0.72600	0.07810	0.02550	0	0.00003	0.00000	0.00000	0.00000	0.00003	0.00006	0.00000	0.00000	0.00009
	P2O5 - 1	0.92100	0.24300	0.24300	0.51600	0.07320	0.02410	0	0.00008	0.00001	0.00000	0.00000	0.00008	0.00020	0.00000	0.00000	0.00029
	Potash	0.02210	0.00448	0.00448	0.01040	0.00122	0.00040	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.10100	0.02420	0.02410	0.04590	0.00561	0.00159	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2.74000	0.75400	0.75400	1.30000	0.24100	0.06070	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
	Winnemucca, NV	Boron	0.00809	0.00311	0.00311	0.00479	0.00110	0.00027	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		4.02000	1.19000	1.19000	2.13000	0.37100	0.09700	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		220.00000	30.00000	29.90000	88.60000	6.85000	2.32000	0	0.00090	0.00004	0.00001	0.00001	0.00080	0.00200	0.00000	0.00000	0.00286
Micronutrients		33.80000	8.22000	8.22000	16.10000	2.94000	0.74500	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Mn		0.02160	0.00463	0.00463	0.01010	0.00150	0.00039	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
NPK as N		6.01000	1.44000	1.44000	2.57000	0.41900	0.11900	0	0.00040	0.00002	0.00000	0.00000	0.00030	0.00070	0.00000	0.00000	0.00103
NPK for P2O5		2.52000	0.35300	0.35300	0.84200	0.08410	0.03000	0	0.00005	0.00000	0.00000	0.00000	0.00004	0.00008	0.00000	0.00000	0.00012
P2O5 - 1		1.04000	0.25600	0.25600	0.52600	0.08020	0.02720	0	0.00010	0.00001	0.00000	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031
Potash		0.02390	0.00540	0.00540	0.01070	0.00141	0.00043	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.11500	0.02790	0.02790	0.05050	0.00637	0.00176	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		3.03000	0.79800	0.79800	1.44000	0.27700	0.07140	0	0.00002	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	0.00004

<sup>1</sup> 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.