

US EPA ARCHIVE DOCUMENT



**50th 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	0.00392	0.00056	0.00056	0.00156	0.00011	0.00004	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Gypsum Products	0.89400	0.12800	0.12800	0.34600	0.02700	0.00931	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	1.20000	0.23300	0.23300	0.52200	0.05320	0.01620	0	0.00030	0.00002	0.00000	0.00000	0.00020	0.00050	0.00000	0.00000	0.00073	
	Micronutrients	8.16000	1.11000	1.11000	3.29000	0.22300	0.08100	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Mn	0.00151	0.00026	0.00026	0.00069	0.00006	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	NPK as N	0.24900	0.03080	0.03080	0.09470	0.00792	0.00280	0	0.00010	0.00001	0.00000	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031	
	NPK for P2O5	0.00640	0.00121	0.00121	0.00285	0.00027	0.00009	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	0.00004	
	P2O5 - 1	0.02580	0.00469	0.00469	0.01220	0.00106	0.00036	0	0.00004	0.00000	0.00000	0.00000	0.00004	0.00007	0.00000	0.00000	0.00011	
	Potash	0.00255	0.00034	0.00034	0.00101	0.00007	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	S as Nutrient	0.00444	0.00060	0.00059	0.00164	0.00013	0.00005	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	0.55300	0.07030	0.07020	0.20700	0.01500	0.00534	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001	
	Boise, ID	Boron	0.00569	0.00085	0.00084	0.00240	0.00016	0.00006	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	1.36000	0.18800	0.18700	0.50300	0.04050	0.01430	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		1.86000	0.33900	0.33700	0.76800	0.07760	0.02450	0	0.00100	0.00020	0.00002	0.00001	0.00100	0.00300	0.00000	0.00000	0.00423	
Micronutrients		12.20000	1.70000	1.70000	5.01000	0.33900	0.12600	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Mn		0.00198	0.00039	0.00039	0.00097	0.00009	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
NPK as N		0.36500	0.04850	0.04830	0.14300	0.01260	0.00426	0	0.00050	0.00007	0.00001	0.00001	0.00060	0.00100	0.00000	0.00000	0.00169	
NPK for P2O5		0.00870	0.00162	0.00162	0.00401	0.00039	0.00012	0	0.00007	0.00001	0.00000	0.00000	0.00007	0.00010	0.00000	0.00000	0.00018	
P2O5 - 1		0.03520	0.00683	0.00682	0.01650	0.00165	0.00052	0	0.00020	0.00003	0.00000	0.00000	0.00020	0.00040	0.00000	0.00000	0.00064	
Potash		0.00384	0.00051	0.00051	0.00154	0.00011	0.00004	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
S as Nutrient		0.00807	0.00084	0.00084	0.00256	0.00021	0.00008	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		0.88200	0.10900	0.10900	0.32900	0.02320	0.00833	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00005	0.00000	0.00000	0.00007	
Boulder, CO		Boron	0.00524	0.00076	0.00076	0.00218	0.00015	0.00005	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	1.25000	0.17300	0.17200	0.45800	0.03660	0.01290	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	1.68000	0.29900	0.29800	0.70100	0.06990	0.02200	0	0.00080	0.00010	0.00001	0.00001	0.00080	0.00200	0.00000	0.00000	0.00292	
	Micronutrients	11.20000	1.55000	1.55000	4.38000	0.30900	0.11500	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Mn	0.00183	0.00036	0.00035	0.00088	0.00008	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	NPK as N	0.34500	0.04400	0.04380	0.13100	0.01160	0.00389	0	0.00030	0.00004	0.00001	0.00000	0.00030	0.00070	0.00000	0.00000	0.00105	
	NPK for P2O5	0.00792	0.00153	0.00152	0.00363	0.00035	0.00011	0	0.00004	0.00001	0.00000	0.00000	0.00004	0.00009	0.00000	0.00000	0.00014	
	P2O5 - 1	0.03290	0.00621	0.00619	0.01510	0.00148	0.00048	0	0.00010	0.00002	0.00000	0.00000	0.00010	0.00030	0.00000	0.00000	0.00042	
	Potash	0.00351	0.00046	0.00046	0.00140	0.00010	0.00004	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	S as Nutrient	0.00728	0.00082	0.00081	0.00230	0.00019	0.00007	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	0.79100	0.09950	0.09900	0.29600	0.02060	0.00764	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	0.00442	0.00063	0.00063	0.00184	0.00012	0.00004	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Gypsum Products	1.03000	0.14800	0.14800	0.39000	0.03030	0.01050	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	1.43000	0.26100	0.26100	0.60600	0.06030	0.01920	0	0.00040	0.00003	0.00001	0.00000	0.00040	0.00080	0.00000	0.00000	0.00124	
	Micronutrients	9.23000	1.24000	1.24000	3.71000	0.25200	0.09400	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Mn	0.00166	0.00030	0.00030	0.00078	0.00007	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	NPK as N	0.29700	0.03640	0.03630	0.11200	0.00918	0.00323	0	0.00020	0.00001	0.00000	0.00000	0.00000	0.00020	0.00030	0.00000	0.00051	
	NPK for P2O5	0.00692	0.00135	0.00135	0.00314	0.00030	0.00010	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00004	0.00000	0.00000	0.00006	
	P2O5 - 1	0.02950	0.00529	0.00529	0.01340	0.00122	0.00040	0	0.00006	0.00001	0.00000	0.00000	0.00006	0.00010	0.00000	0.00000	0.00017	
	Potash	0.00291	0.00038	0.00038	0.00116	0.00009	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	S as Nutrient	0.00548	0.00070	0.00070	0.00195	0.00015	0.00006	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	0.66000	0.08310	0.08300	0.24900	0.01760	0.00623	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	Charleston, SC	Boron	0.00215	0.00031	0.00031	0.00084	0.00007	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.50000	0.07070	0.07020	0.19400	0.01550	0.00555	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		0.74500	0.13800	0.13800	0.29500	0.02860	0.00901	0	0.00008	0.00002	0.00000	0.00000	0.00009	0.00020	0.00000	0.00000	0.00031	
Micronutrients		4.40000	0.63600	0.63100	1.72000	0.13700	0.04830	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Mn		0.00103	0.00015	0.00015	0.00041	0.00004	0.00001	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
NPK as N		0.13900	0.01780	0.01780	0.05290	0.00472	0.00164	0	0.00003	0.00001	0.00000	0.00000	0.00004	0.00008	0.00000	0.00000	0.00013	
NPK for P2O5		0.00441	0.00079	0.00078	0.00188	0.00018	0.00006	0	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
P2O5 - 1		0.01790	0.00282	0.00281	0.00751	0.00065	0.00021	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	0.00004	
Potash		0.00142	0.00019	0.00019	0.00056	0.00004	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
S as Nutrient		0.00218	0.00033	0.00032	0.00088	0.00007	0.00003	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		0.27300	0.03800	0.03780	0.10200	0.00757	0.00262	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	
Chicago, IL		Boron	0.00279	0.00040	0.00039	0.00110	0.00008	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.64400	0.09380	0.09280	0.25400	0.02040	0.00711	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	0.92800	0.18400	0.18100	0.38500	0.03920	0.01210	0	0.00010	0.00003	0.00000	0.00000	0.00010	0.00030	0.00000	0.00000	0.00043	
	Micronutrients	5.78000	0.82300	0.81800	2.28000	0.17900	0.06050	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Mn	0.00123	0.00020	0.00020	0.00052	0.00005	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	NPK as N	0.18000	0.02270	0.02250	0.06680	0.00624	0.00210	0	0.00005	0.00001	0.00000	0.00000	0.00005	0.00010	0.00000	0.00000	0.00016	
	NPK for P2O5	0.00528	0.00095	0.00094	0.00229	0.00021	0.00007	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003	
	P2O5 - 1	0.02140	0.00349	0.00348	0.00922	0.00082	0.00027	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00004	0.00000	0.00000	0.00006	
	Potash	0.00182	0.00024	0.00024	0.00072	0.00006	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	S as Nutrient	0.00291	0.00044	0.00044	0.00119	0.00010	0.00004	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	0.37200	0.04980	0.04920	0.13900	0.01090	0.00375	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	0.00268	0.00038	0.00038	0.00106	0.00008	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Gypsum Products	0.61400	0.08820	0.08790	0.24000	0.02000	0.00684	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	0.87500	0.17400	0.17200	0.36600	0.03650	0.01150	0	0.00010	0.00003	0.00000	0.00000	0.00010	0.00030	0.00000	0.00000	0.00044	
	Micronutrients	5.57000	0.77500	0.76700	2.19000	0.17500	0.06100	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Mn	0.00119	0.00020	0.00019	0.00049	0.00005	0.00001	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	NPK as N	0.17200	0.02150	0.02140	0.06580	0.00607	0.00200	0	0.00004	0.00001	0.00000	0.00000	0.00005	0.00010	0.00000	0.00000	0.00016	
	NPK for P2O5	0.00514	0.00091	0.00091	0.00218	0.00021	0.00007	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003	
	P2O5 - 1	0.02120	0.00342	0.00340	0.00887	0.00080	0.00026	0	0.00002	0.00001	0.00000	0.00000	0.00002	0.00004	0.00000	0.00000	0.00007	
	Potash	0.00179	0.00024	0.00024	0.00069	0.00005	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	S as Nutrient	0.00273	0.00042	0.00041	0.00111	0.00009	0.00003	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	0.35300	0.04740	0.04710	0.13300	0.01030	0.00353	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001	
	Fresno, CA	Boron	0.00550	0.00082	0.00081	0.00234	0.00015	0.00006	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	1.34000	0.18200	0.18100	0.48700	0.03880	0.01400	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		1.77000	0.32700	0.32700	0.76300	0.07570	0.02420	0	0.00100	0.00020	0.00002	0.00001	0.00100	0.00300	0.00000	0.00000	0.00423	
Micronutrients		11.80000	1.65000	1.65000	4.82000	0.32600	0.12200	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Mn		0.00190	0.00037	0.00037	0.00094	0.00009	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
NPK as N		0.35800	0.04830	0.04800	0.13900	0.01230	0.00407	0	0.00050	0.00006	0.00001	0.00001	0.00050	0.00100	0.00000	0.00000	0.00157	
NPK for P2O5		0.00831	0.00158	0.00158	0.00395	0.00038	0.00012	0	0.00007	0.00001	0.00000	0.00000	0.00007	0.00010	0.00000	0.00000	0.00018	
P2O5 - 1		0.03410	0.00652	0.00651	0.01600	0.00159	0.00050	0	0.00020	0.00002	0.00000	0.00000	0.00020	0.00040	0.00000	0.00000	0.00063	
Potash		0.00375	0.00050	0.00050	0.00148	0.00011	0.00004	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
S as Nutrient		0.00780	0.00082	0.00082	0.00248	0.00020	0.00007	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		0.86400	0.10700	0.10600	0.32800	0.02240	0.00809	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00005	0.00000	0.00000	0.00007	
Grand Island, NE		Boron	0.00398	0.00056	0.00056	0.00159	0.00011	0.00004	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.90700	0.13200	0.13200	0.35000	0.02800	0.00955	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	1.24000	0.24100	0.24100	0.53000	0.05510	0.01690	0	0.00030	0.00002	0.00000	0.00000	0.00030	0.00050	0.00000	0.00000	0.00083	
	Micronutrients	8.41000	1.15000	1.15000	3.37000	0.22900	0.08330	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Mn	0.00154	0.00027	0.00027	0.00071	0.00006	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	NPK as N	0.25600	0.03230	0.03220	0.09640	0.00815	0.00298	0	0.00010	0.00001	0.00000	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031	
	NPK for P2O5	0.00650	0.00124	0.00124	0.00291	0.00027	0.00009	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	0.00004	
	P2O5 - 1	0.02730	0.00480	0.00479	0.01230	0.00109	0.00037	0	0.00004	0.00000	0.00000	0.00000	0.00004	0.00007	0.00000	0.00000	0.00011	
	Potash	0.00260	0.00035	0.00035	0.00104	0.00008	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	S as Nutrient	0.00451	0.00061	0.00061	0.00167	0.00013	0.00005	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	0.56100	0.07240	0.07230	0.20900	0.01540	0.00554	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001	



**50th 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	0.00240	0.00034	0.00034	0.00095	0.00007	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Gypsum Products	0.55900	0.07800	0.07740	0.21600	0.01730	0.00619	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	0.80200	0.14900	0.14900	0.32800	0.03110	0.00990	0	0.00009	0.00001	0.00000	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031	
	Micronutrients	4.86000	0.69900	0.69500	1.91000	0.15300	0.05360	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Mn	0.00112	0.00017	0.00017	0.00045	0.00004	0.00001	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	NPK as N	0.15400	0.01980	0.01960	0.05890	0.00520	0.00180	0	0.00004	0.00001	0.00000	0.00000	0.00004	0.00008	0.00000	0.00000	0.00013	
	NPK for P2O5	0.00474	0.00087	0.00087	0.00204	0.00019	0.00006	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002	
	P2O5 - 1	0.01950	0.00313	0.00312	0.00811	0.00070	0.00024	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	0.00004	
	Potash	0.00159	0.00021	0.00021	0.00062	0.00005	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	S as Nutrient	0.00242	0.00037	0.00037	0.00098	0.00008	0.00003	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	0.30700	0.04240	0.04190	0.11500	0.00866	0.00295	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	
	Las Vegas, NV	Boron	0.00551	0.00081	0.00081	0.00231	0.00015	0.00006	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	1.34000	0.17900	0.17900	0.49100	0.03810	0.01370	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		1.80000	0.32000	0.31900	0.74400	0.07380	0.02400	0	0.00100	0.00009	0.00001	0.00001	0.00100	0.00200	0.00000	0.00000	0.00311	
Micronutrients		11.80000	1.63000	1.63000	4.83000	0.32300	0.12100	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Mn		0.00189	0.00038	0.00038	0.00093	0.00009	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
NPK as N		0.35300	0.04680	0.04660	0.14000	0.01210	0.00404	0	0.00050	0.00004	0.00001	0.00001	0.00050	0.00100	0.00000	0.00000	0.00155	
NPK for P2O5		0.00847	0.00158	0.00158	0.00391	0.00037	0.00012	0	0.00006	0.00001	0.00000	0.00000	0.00006	0.00010	0.00000	0.00000	0.00017	
P2O5 - 1		0.03410	0.00661	0.00661	0.01620	0.00153	0.00050	0	0.00020	0.00001	0.00000	0.00000	0.00020	0.00030	0.00000	0.00000	0.00051	
Potash		0.00374	0.00050	0.00050	0.00147	0.00011	0.00004	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
S as Nutrient		0.00789	0.00083	0.00083	0.00246	0.00020	0.00007	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		0.85200	0.10700	0.10700	0.32200	0.02190	0.00802	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00004	0.00000	0.00000	0.00006	
Los Angeles, CA		Boron	0.00450	0.00066	0.00066	0.00189	0.00012	0.00005	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	1.06000	0.15200	0.15000	0.39800	0.03190	0.01110	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	1.50000	0.27100	0.27100	0.63000	0.06270	0.02010	0	0.00040	0.00007	0.00001	0.00000	0.00050	0.00100	0.00000	0.00000	0.00158	
	Micronutrients	9.64000	1.32000	1.32000	3.85000	0.26700	0.09770	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Mn	0.00169	0.00031	0.00031	0.00078	0.00007	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	NPK as N	0.30500	0.03680	0.03660	0.11400	0.00966	0.00334	0	0.00020	0.00003	0.00000	0.00000	0.00020	0.00040	0.00000	0.00000	0.00064	
	NPK for P2O5	0.00703	0.00138	0.00137	0.00315	0.00031	0.00010	0	0.00002	0.00000	0.00000	0.00000	0.00002	0.00005	0.00000	0.00000	0.00007	
	P2O5 - 1	0.03030	0.00553	0.00551	0.01370	0.00125	0.00041	0	0.00006	0.00001	0.00000	0.00000	0.00007	0.00010	0.00000	0.00000	0.00018	
	Potash	0.00299	0.00039	0.00039	0.00120	0.00009	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	S as Nutrient	0.00569	0.00069	0.00069	0.00202	0.00016	0.00006	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	0.67200	0.08580	0.08510	0.25600	0.01820	0.00645	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003	

**50th 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	0.00187	0.00028	0.00028	0.00073	0.00006	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Gypsum Products	0.44200	0.06210	0.06170	0.17600	0.01400	0.00500	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	0.67300	0.12200	0.12100	0.27200	0.02500	0.00835	0	0.00006	0.00001	0.00000	0.00000	0.00007	0.00010	0.00000	0.00000	0.00000	
	Micronutrients	3.88000	0.55400	0.54900	1.53000	0.12200	0.04280	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Mn	0.00093	0.00014	0.00014	0.00037	0.00003	0.00001	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	NPK as N	0.11900	0.01570	0.01560	0.04630	0.00422	0.00143	0	0.00003	0.00001	0.00000	0.00000	0.00003	0.00006	0.00000	0.00000	0.00010	
	NPK for P2O5	0.00410	0.00071	0.00070	0.00172	0.00016	0.00005	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001	
	P2O5 - 1	0.01650	0.00250	0.00248	0.00690	0.00059	0.00020	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003	
	Potash	0.00123	0.00017	0.00017	0.00049	0.00004	0.00001	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	S as Nutrient	0.00185	0.00029	0.00028	0.00077	0.00006	0.00002	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	0.23100	0.03220	0.03180	0.08870	0.00654	0.00230	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Miami, FL	Boron	0.00209	0.00030	0.00030	0.00080	0.00006	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.48400	0.06750	0.06730	0.19000	0.01460	0.00537	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		0.72500	0.13300	0.13300	0.28700	0.02740	0.00872	0	0.00008	0.00001	0.00000	0.00000	0.00008	0.00020	0.00000	0.00000	0.00029	
Micronutrients		4.25000	0.60400	0.60400	1.70000	0.12800	0.04550	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Mn		0.00090	0.00015	0.00015	0.00040	0.00004	0.00001	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
NPK as N		0.13000	0.01670	0.01670	0.05030	0.00436	0.00151	0	0.00003	0.00000	0.00000	0.00000	0.00003	0.00006	0.00000	0.00000	0.00009	
NPK for P2O5		0.00416	0.00070	0.00070	0.00179	0.00016	0.00006	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001	
P2O5 - 1		0.01720	0.00267	0.00266	0.00714	0.00061	0.00020	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003	
Potash		0.00136	0.00018	0.00018	0.00055	0.00004	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
S as Nutrient		0.00219	0.00031	0.00031	0.00087	0.00007	0.00003	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		0.26000	0.03510	0.03500	0.09930	0.00730	0.00257	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Minneapolis, MN		Boron	0.00356	0.00051	0.00051	0.00140	0.00010	0.00004	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.80600	0.11900	0.11800	0.32100	0.02600	0.00870	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	1.10000	0.22100	0.22000	0.47300	0.05020	0.01540	0	0.00020	0.00003	0.00000	0.00000	0.00020	0.00040	0.00000	0.00000	0.00064	
	Micronutrients	7.38000	1.06000	1.05000	2.93000	0.21800	0.07710	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	Mn	0.00142	0.00024	0.00024	0.00065	0.00006	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	NPK as N	0.23200	0.02890	0.02870	0.08600	0.00768	0.00274	0	0.00008	0.00001	0.00000	0.00000	0.00009	0.00020	0.00000	0.00000	0.00030	
	NPK for P2O5	0.00608	0.00111	0.00111	0.00271	0.00026	0.00008	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003	
	P2O5 - 1	0.02450	0.00428	0.00425	0.01130	0.00100	0.00034	0	0.00003	0.00001	0.00000	0.00000	0.00003	0.00006	0.00000	0.00000	0.00010	
	Potash	0.00234	0.00031	0.00031	0.00093	0.00007	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	S as Nutrient	0.00397	0.00055	0.00055	0.00150	0.00013	0.00005	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	0.49300	0.06520	0.06470	0.18800	0.01420	0.00490	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001	





**50th 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	0.00235	0.00034	0.00033	0.00093	0.00007	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.54400	0.07630	0.07540	0.21200	0.01730	0.00614	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	0.77900	0.15000	0.14900	0.32500	0.03130	0.00987	0	0.00009	0.00003	0.00000	0.00000	0.00010	0.00030	0.00000	0.00000	0.00043
	Micronutrients	4.80000	0.68900	0.68200	1.87000	0.15300	0.05310	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Mn	0.00108	0.00017	0.00017	0.00043	0.00004	0.00001	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	0.15200	0.01960	0.01940	0.05770	0.00521	0.00177	0	0.00004	0.00001	0.00000	0.00000	0.00005	0.00010	0.00000	0.00000	0.00016
	NPK for P2O5	0.00464	0.00084	0.00083	0.00197	0.00019	0.00006	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	P2O5 - 1	0.01880	0.00305	0.00304	0.00798	0.00070	0.00023	0	0.00001	0.00001	0.00000	0.00000	0.00002	0.00004	0.00000	0.00000	0.00007
	Potash	0.00156	0.00021	0.00021	0.00061	0.00005	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00238	0.00037	0.00036	0.00095	0.00008	0.00003	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	0.30300	0.04190	0.04130	0.11100	0.00879	0.00300	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
	Salem, OR	Boron	0.00242	0.00035	0.00035	0.00096	0.00007	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		Gypsum Products	0.56400	0.07950	0.07940	0.22300	0.01730	0.00620	0	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
Liming Materials		0.80700	0.15500	0.15400	0.34100	0.03200	0.01010	0	0.00009	0.00001	0.00000	0.00000	0.00010	0.00020	0.00000	0.00000	
Micronutrients		5.07000	0.71000	0.70800	1.99000	0.15400	0.05400	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Mn		0.00112	0.00017	0.00017	0.00045	0.00004	0.00001	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
NPK as N		0.15900	0.01990	0.01980	0.05920	0.00530	0.00183	0	0.00004	0.00000	0.00000	0.00000	0.00004	0.00008	0.00000	0.00000	
NPK for P2O5		0.00481	0.00086	0.00085	0.00201	0.00018	0.00006	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	
P2O5 - 1		0.01960	0.00315	0.00315	0.00828	0.00071	0.00024	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00003	0.00000	0.00000	
Potash		0.00161	0.00021	0.00021	0.00062	0.00005	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
S as Nutrient		0.00251	0.00037	0.00037	0.00100	0.00008	0.00003	0	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	
Zinc		0.32100	0.04270	0.04240	0.11800	0.00885	0.00306	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Salt Lake City, UT		Boron	0.00572	0.00084	0.00084	0.00239	0.00016	0.00006	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
		Gypsum Products	1.38000	0.18600	0.18600	0.50100	0.04000	0.01440	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	
		Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	1.84000	0.33200	0.33100	0.77700	0.07830	0.02470	0	0.00100	0.00020	0.00003	0.00001	0.00200	0.00300	0.00000		
	Micronutrients	12.10000	1.72000	1.71000	4.94000	0.34400	0.12500	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
	Mn	0.00197	0.00039	0.00038	0.00096	0.00009	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
	NPK as N	0.36600	0.04860	0.04830	0.14400	0.01250	0.00426	0	0.00060	0.00009	0.00001	0.00001	0.00060	0.00100	0.00000		
	NPK for P2O5	0.00859	0.00163	0.00162	0.00404	0.00039	0.00012	0	0.00008	0.00001	0.00000	0.00000	0.00008	0.00020	0.00000		
	P2O5 - 1	0.03530	0.00681	0.00680	0.01660	0.00163	0.00053	0	0.00020	0.00003	0.00000	0.00000	0.00020	0.00050	0.00000		
	Potash	0.00383	0.00051	0.00051	0.00152	0.00011	0.00004	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
	S as Nutrient	0.00813	0.00085	0.00084	0.00259	0.00021	0.00007	0	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		
	Zinc	0.88800	0.11000	0.10900	0.33200	0.02310	0.00842	0	0.00003	0.00000	0.00000	0.00000	0.00003	0.00006	0.00000		

**50th 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	<b>Boron</b>	0.00466	0.00067	0.00067	0.00193	0.00013	0.00005	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	<b>Gypsum Products</b>	1.10000	0.15300	0.15300	0.41300	0.03220	0.01130	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001	
	<b>Iron</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	<b>Liming Materials</b>	1.56000	0.26800	0.26600	0.64100	0.06240	0.01990	0	0.00050	0.00005	0.00001	0.00001	0.00050	0.00100	0.00000	0.00000	0.00156	
	<b>Micronutrients</b>	10.10000	1.36000	1.35000	3.88000	0.27500	0.10100	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	<b>Mn</b>	0.00172	0.00032	0.00032	0.00081	0.00007	0.00002	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	<b>NPK as N</b>	0.31100	0.03830	0.03820	0.11400	0.00977	0.00341	0	0.00020	0.00002	0.00000	0.00000	0.00020	0.00040	0.00000	0.00000	0.00063	
	<b>NPK for P2O5</b>	0.00721	0.00138	0.00138	0.00327	0.00032	0.00010	0	0.00003	0.00000	0.00000	0.00000	0.00003	0.00006	0.00000	0.00000	0.00009	
	<b>P2O5 - 1</b>	0.03040	0.00555	0.00555	0.01420	0.00130	0.00043	0	0.00008	0.00001	0.00000	0.00000	0.00008	0.00020	0.00000	0.00000	0.00029	
	<b>Potash</b>	0.00312	0.00040	0.00040	0.00124	0.00009	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	<b>S as Nutrient</b>	0.00612	0.00073	0.00073	0.00207	0.00016	0.00006	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	<b>S as Ph</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	<b>Zinc</b>	0.69400	0.08760	0.08730	0.26500	0.01830	0.00677	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003	
	Winnemucca, NV	<b>Boron</b>	0.00520	0.00076	0.00076	0.00216	0.00014	0.00005	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		<b>Gypsum Products</b>	1.26000	0.17400	0.17400	0.45900	0.03550	0.01290	0	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
<b>Iron</b>		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Liming Materials</b>		1.70000	0.30100	0.30100	0.71100	0.07040	0.02240	0	0.00090	0.00004	0.00001	0.00001	0.00080	0.00200	0.00000	0.00000	0.00286	
<b>Micronutrients</b>		11.20000	1.52000	1.52000	4.44000	0.29900	0.11300	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
<b>Mn</b>		0.00185	0.00035	0.00035	0.00089	0.00008	0.00003	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
<b>NPK as N</b>		0.35000	0.04310	0.04310	0.13000	0.01120	0.00386	0	0.00040	0.00002	0.00000	0.00000	0.00030	0.00070	0.00000	0.00000	0.00103	
<b>NPK for P2O5</b>		0.00787	0.00151	0.00151	0.00372	0.00035	0.00011	0	0.00005	0.00000	0.00000	0.00000	0.00004	0.00008	0.00000	0.00000	0.00012	
<b>P2O5 - 1</b>		0.03260	0.00612	0.00612	0.01500	0.00148	0.00047	0	0.00010	0.00001	0.00000	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031	
<b>Potash</b>		0.00355	0.00047	0.00047	0.00141	0.00010	0.00004	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
<b>S as Nutrient</b>		0.00729	0.00079	0.00079	0.00230	0.00018	0.00007	0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
<b>S as Ph</b>		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Zinc</b>		0.79800	0.10000	0.10000	0.29800	0.02030	0.00755	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.