99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Vanadium (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**	0.01860	0.00004	0.00002	0	0.00003	0.00003	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Gypsum Products	7.65000	0.01640	0.00773	0	0.01430	0.01170	0	0.00080	0.00070	0.00020	0	0.00501	0.01000	0	NA	0.01591
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	130.00000	0.25200	0.11900	0	0.21800	0.17600	0	0.01000	0.00701	0.00300	0	0.07010	0.20000	0	NA	0.28011
	Micronutrients	0.03630	0.00008	0.00004	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00003	0.00007	0	NA	0.00010
	Mn	0.00208	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00001
	NPK as N	22.10000	0.04120	0.01940	0	0.04040	0.03180	0	0.00201	0.00100	0.00030	0	0.01000	0.02000	0	NA	0.03130
	NPK for P2O5	10.10000	0.01840	0.00867	0	0.01740	0.01400	0	0.00100	0.00040	0.00010	0	0.00401	0.01000	0	NA	0.01451
	P2O5 - 1	8.32000	0.01650	0.00780	0	0.01520	0.01280	0	0.00090	0.00050	0.00020	0	0.00501	0.01000	0	NA	0.01571
	Potash	0.16700	0.00030	0.00014	0	0.00030	0.00024	0	0.00002	0.00001	0.00000	0	0.00009	0.00020	0	NA	0.00030
	S as Nutrient	3.93000	0.00759	0.00358	0	0.00707	0.00561	0	0.00040	0.00020	0.00007	0	0.00300	0.00500	0	NA	0.00827
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08460	0.00018	0.00008	0	0.00015	0.00012	0	0.00001	0.00001	0.00000	0	0.00005	0.00020	0	NA	0.00026
Albuquerque, NM	**Boron**	0.02010	0.00002	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	8.21000	0.00576	0.00272	0	0.01310	0.01000	0	0.00090	0.00020	0.00007	0	0.00500	0.01000	0	NA	0.01527
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	138.00000	0.10200	0.04810	0	0.21500	0.15500	0	0.01010	0.00300	0.00100	0	0.07000	0.20000	0	NA	0.27400
	Micronutrients	0.04060	0.00003	0.00001	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00002	0.00006	0	NA	0.00008
	Mn	0.00227	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	24.30000	0.01660	0.00784	0	0.03600	0.02700	0	0.00300	0.00040	0.00010	0	0.01000	0.02000	0	NA	0.03050
	NPK for P2O5	10.90000	0.00754	0.00355	0	0.01610	0.01230	0	0.00100	0.00020	0.00005	0	0.00400	0.01000	0	NA	0.01425
	P2O5 - 1	9.11000	0.00610	0.00288	0	0.01400	0.01080	0	0.00100	0.00020	0.00006	0	0.00500	0.01000	0	NA	0.01526
	Potash	0.18600	0.00013	0.00006	0	0.00029	0.00022	0	0.00002	0.00000	0.00000	0	0.00009	0.00020	0	NA	0.00029
	S as Nutrient	4.19000	0.00315	0.00149	0	0.00633	0.00474	0	0.00050	0.00008	0.00002	0	0.00200	0.00401	0	NA	0.00611
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09250	0.00007	0.00003	0	0.00014	0.00011	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015
Atlanta, GA	**Boron**	0.01770	0.00004	0.00002	0	0.00003	0.00003	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	7.32000	0.01400	0.00658	0	0.01320	0.01100	0	0.00080	0.00060	0.00020	0	0.00500	0.01000	0	NA	0.01580
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	125.00000	0.23900	0.11300	0	0.21400	0.17200	0	0.01000	0.00600	0.00200	0	0.07000	0.20000	0	NA	0.27800
	Micronutrients	0.03480	0.00007	0.00003	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00002	0.00006	0	NA	0.00008
	Mn	0.00195	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	20.60000	0.03260	0.01540	0	0.03530	0.02800	0	0.00200	0.00070	0.00030	0	0.00901	0.02000	0	NA	0.03001
	NPK for P2O5	9.51000	0.01720	0.00811	0	0.01660	0.01330	0	0.00100	0.00030	0.00010	0	0.00400	0.01000	0	NA	0.01440
	P2O5 - 1	7.83000	0.01510	0.00710	0	0.01390	0.01110	0	0.00090	0.00030	0.00010	0	0.00500	0.01000	0	NA	0.01540
	Potash	0.16200	0.00028	0.00013	0	0.00028	0.00023	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00029
	S as Nutrient	3.64000	0.00658	0.00310	0	0.00639	0.00514	0	0.00040	0.00020	0.00005	0	0.00200	0.00500	0	NA	0.00725
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08080	0.00015	0.00007	0	0.00014	0.00011	0	0.00001	0.00001	0.00000	0	0.00005	0.00010	0	NA	0.00016

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Vanadium (Adult)

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Bismarck, ND	**Boron**	0.01980	0.00001	0.00000	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00003	0	NA	0.00005
	Gypsum Products	8.08000	0.00260	0.00123	0	0.01210	0.00900	0	0.00090	0.00010	0.00003	0	0.00401	0.00901	0	NA	0.01315
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	138.00000	0.04220	0.01990	0	0.19900	0.14100	0	0.01000	0.00100	0.00040	0	0.06000	0.10000	0	NA	0.16140
	Micronutrients	0.03900	0.00001	0.00001	0	0.00006	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00221	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	22.80000	0.00692	0.00326	0	0.03350	0.02470	0	0.00300	0.00020	0.00006	0	0.00901	0.02000	0	NA	0.02927
	NPK for P2O5	10.90000	0.00347	0.00164	0	0.01510	0.01110	0	0.00100	0.00006	0.00002	0	0.00400	0.01000	0	NA	0.01408
	P2O5 - 1	8.93000	0.00276	0.00130	0	0.01350	0.01000	0	0.00100	0.00008	0.00003	0	0.00500	0.01000	0	NA	0.01511
	Potash	0.17900	0.00006	0.00003	0	0.00026	0.00019	0	0.00002	0.00000	0.00000	0	0.00007	0.00010	0	NA	0.00017
	S as Nutrient	4.14000	0.00130	0.00062	0	0.00602	0.00437	0	0.00050	0.00004	0.00001	0	0.00200	0.00400	0	NA	0.00605
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09200	0.00003	0.00001	0	0.00013	0.00010	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015
Boise, ID	**Boron**	0.02070	0.00002	0.00001	0	0.00003	0.00003	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	8.66000	0.00813	0.00383	0	0.01380	0.01050	0	0.00100	0.00030	0.00010	0	0.00500	0.01000	0	NA	0.01540
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	146.00000	0.14800	0.06990	0	0.22800	0.17400	0	0.02000	0.00400	0.00100	0	0.07000	0.20000	0	NA	0.27500
	Micronutrients	0.04080	0.00004	0.00002	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00003	0.00006	0	NA	0.00009
	Mn	0.00231	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00001
	NPK as N	24.40000	0.02260	0.01070	0	0.03980	0.03040	0	0.00300	0.00050	0.00020	0	0.01000	0.02000	0	NA	0.03070
	NPK for P2O5	11.20000	0.01040	0.00489	0	0.01750	0.01350	0	0.00100	0.00020	0.00007	0	0.00401	0.01000	0	NA	0.01428
	P2O5 - 1	9.30000	0.00961	0.00453	0	0.01550	0.01210	0	0.00100	0.00030	0.00009	0	0.00500	0.01000	0	NA	0.01539
	Potash	0.18600	0.00018	0.00009	0	0.00030	0.00023	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	4.32000	0.00412	0.00195	0	0.00671	0.00517	0	0.00050	0.00010	0.00004	0	0.00300	0.00500	0	NA	0.00814
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09620	0.00010	0.00005	0	0.00016	0.00012	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015
Boulder, CO	**Boron**	0.02030	0.00003	0.00001	0	0.00003	0.00003	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	8.34000	0.00959	0.00452	0	0.01410	0.01130	0	0.00090	0.00040	0.00010	0	0.00500	0.01000	0	NA	0.01550
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	145.00000	0.14800	0.06970	0	0.22600	0.17500	0	0.02000	0.00500	0.00200	0	0.08000	0.20000	0	NA	0.28700
	Micronutrients	0.03940	0.00004	0.00002	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00003	0.00006	0	NA	0.00009
	Mn	0.00231	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	23.50000	0.02300	0.01090	0	0.03760	0.02890	0	0.00300	0.00070	0.00020	0	0.01000	0.02000	0	NA	0.03090
	NPK for P2O5	11.10000	0.01130	0.00533	0	0.01720	0.01290	0	0.00100	0.00020	0.00008	0	0.00401	0.01000	0	NA	0.01429
	P2O5 - 1	9.13000	0.01020	0.00481	0	0.01470	0.01150	0	0.00100	0.00030	0.00009	0	0.00500	0.01000	0	NA	0.01539
	Potash	0.18300	0.00020	0.00009	0	0.00030	0.00023	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	4.16000	0.00474	0.00223	0	0.00668	0.00515	0	0.00050	0.00010	0.00004	0	0.00300	0.00500	0	NA	0.00814
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09270	0.00011	0.00005	0	0.00015	0.00011	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00016

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Casper, WY	**Boron**	0.01990	0.00001	0.00000	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00003	0	NA	0.00005
	Gypsum Products	8.19000	0.00300	0.00142	0	0.01270	0.00938	0	0.00090	0.00010	0.00003	0	0.00401	0.00900	0	NA	0.01314
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	142.00000	0.04930	0.02320	0	0.20400	0.15100	0	0.01000	0.00200	0.00050	0	0.06010	0.10000	0	NA	0.16260
	Micronutrients	0.03950	0.00001	0.00001	0	0.00006	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00223	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	23.90000	0.00796	0.00376	0	0.03420	0.02480	0	0.00300	0.00020	0.00007	0	0.00901	0.02000	0	NA	0.02928
	NPK for P2O5	10.70000	0.00343	0.00162	0	0.01540	0.01130	0	0.00100	0.00007	0.00003	0	0.00400	0.00901	0	NA	0.01311
	P2O5 - 1	8.96000	0.00323	0.00152	0	0.01330	0.00996	0	0.00100	0.00009	0.00004	0	0.00500	0.01000	0	NA	0.01513
	Potash	0.17600	0.00006	0.00003	0	0.00026	0.00019	0	0.00002	0.00000	0.00000	0	0.00007	0.00010	0	NA	0.00017
	S as Nutrient	4.09000	0.00149	0.00070	0	0.00593	0.00427	0	0.00050	0.00004	0.00001	0	0.00200	0.00400	0	NA	0.00605
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09090	0.00003	0.00002	0	0.00014	0.00010	0	0.00001	0.00000	0.00000	0	0.00004	0.00010	0	NA	0.00014
Charleston, SC	**Boron**	0.01770	0.00003	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	7.36000	0.01250	0.00589	0	0.01270	0.01020	0	0.00080	0.00040	0.00010	0	0.00500	0.01000	0	NA	0.01550
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	127.00000	0.18400	0.08700	0	0.19900	0.15700	0	0.01000	0.00500	0.00100	0	0.06000	0.20000	0	NA	0.26600
	Micronutrients	0.03560	0.00006	0.00003	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00200	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	21.40000	0.02080	0.00981	0	0.03380	0.02640	0	0.00200	0.00060	0.00030	0	0.00901	0.02000	0	NA	0.02991
	NPK for P2O5	9.83000	0.01290	0.00607	0	0.01630	0.01290	0	0.00100	0.00030	0.00008	0	0.00400	0.01000	0	NA	0.01438
	P2O5 - 1	8.15000	0.01200	0.00566	0	0.01390	0.01070	0	0.00100	0.00030	0.00010	0	0.00401	0.01000	0	NA	0.01441
	Potash	0.15900	0.00021	0.00010	0	0.00026	0.00020	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	3.71000	0.00526	0.00248	0	0.00593	0.00462	0	0.00040	0.00010	0.00004	0	0.00200	0.00400	0	NA	0.00614
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08390	0.00014	0.00006	0	0.00014	0.00011	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00016
Chicago, IL	**Boron**	0.01910	0.00005	0.00002	0	0.00004	0.00003	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Gypsum Products	7.78000	0.01820	0.00859	0	0.01490	0.01240	0	0.00090	0.00070	0.00020	0	0.00600	0.01000	0	NA	0.01690
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	129.00000	0.29400	0.13900	0	0.24100	0.19800	0	0.01000	0.00900	0.00201	0	0.07010	0.20000	0	NA	0.28111
	Micronutrients	0.03750	0.00009	0.00004	0	0.00007	0.00006	0	0.00000	0.00000	0.00000	0	0.00003	0.00007	0	NA	0.00010
	Mn	0.00210	0.00001	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00001
	NPK as N	23.10000	0.04040	0.01900	0	0.04220	0.03360	0	0.00201	0.00100	0.00040	0	0.01000	0.02000	0	NA	0.03140
	NPK for P2O5	10.40000	0.02240	0.01060	0	0.01870	0.01540	0	0.00100	0.00040	0.00020	0	0.00500	0.01000	0	NA	0.01560
	P2O5 - 1	8.65000	0.02070	0.00977	0	0.01630	0.01350	0	0.00100	0.00070	0.00020	0	0.00600	0.01000	0	NA	0.01690
	Potash	0.17600	0.00037	0.00017	0	0.00032	0.00025	0	0.00002	0.00000	0.00000	0	0.00009	0.00020	0	NA	0.00030
	S as Nutrient	4.03000	0.00871	0.00411	0	0.00717	0.00598	0	0.00040	0.00030	0.00007	0	0.00300	0.00500	0	NA	0.00837
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08780	0.00019	0.00009	0	0.00016	0.00013	0	0.00001	0.00001	0.00000	0	0.00005	0.00010	0	NA	0.00016

99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Vanadium (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**	0.01920	0.00004	0.00002	0	0.00004	0.00003	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	7.89000	0.01790	0.00845	0	0.01470	0.01220	0	0.00090	0.00070	0.00020	0	0.00600	0.01000	0	NA	0.01690
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	132.00000	0.27100	0.12800	0	0.23400	0.19300	0	0.01000	0.00801	0.00300	0	0.07010	0.20000	0	NA	0.28111
	Micronutrients	0.03740	0.00009	0.00004	0	0.00007	0.00006	0	0.00000	0.00000	0.00000	0	0.00003	0.00007	0	NA	0.00010
	Mn	0.00216	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00001
	NPK as N	22.60000	0.04540	0.02140	0	0.04120	0.03340	0	0.00300	0.00100	0.00040	0	0.01000	0.02010	0	NA	0.03150
	NPK for P2O5	10.60000	0.02240	0.01060	0	0.01910	0.01560	0	0.00100	0.00040	0.00010	0	0.00500	0.01000	0	NA	0.01550
	P2O5 - 1	8.74000	0.01900	0.00897	0	0.01630	0.01340	0	0.00100	0.00060	0.00020	0	0.00600	0.01000	0	NA	0.01680
	Potash	0.17500	0.00039	0.00019	0	0.00032	0.00027	0	0.00002	0.00001	0.00000	0	0.00009	0.00020	0	NA	0.00030
	S as Nutrient	4.01000	0.00890	0.00420	0	0.00736	0.00600	0	0.00040	0.00020	0.00006	0	0.00300	0.00500	0	NA	0.00826
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08740	0.00019	0.00009	0	0.00016	0.00013	0	0.00001	0.00001	0.00000	0	0.00005	0.00020	0	NA	0.00026
Fresno, CA	**Boron**	0.02000	0.00002	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	8.25000	0.00677	0.00319	0	0.01330	0.01030	0	0.00090	0.00030	0.00008	0	0.00500	0.01000	0	NA	0.01538
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	141.00000	0.11100	0.05240	0	0.21300	0.15900	0	0.01000	0.00300	0.00100	0	0.07000	0.20000	0	NA	0.27400
	Micronutrients	0.03900	0.00003	0.00001	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00002	0.00006	0	NA	0.00008
	Mn	0.00229	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	23.50000	0.01850	0.00873	0	0.03610	0.02760	0	0.00300	0.00040	0.00020	0	0.01000	0.02000	0	NA	0.03060
	NPK for P2O5	10.70000	0.00826	0.00390	0	0.01640	0.01240	0	0.00100	0.00020	0.00006	0	0.00400	0.01000	0	NA	0.01426
	P2O5 - 1	9.01000	0.00736	0.00347	0	0.01440	0.01090	0	0.00100	0.00020	0.00007	0	0.00500	0.01000	0	NA	0.01527
	Potash	0.18600	0.00015	0.00007	0	0.00029	0.00022	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	4.15000	0.00350	0.00165	0	0.00655	0.00494	0	0.00050	0.00009	0.00003	0	0.00201	0.00500	0	NA	0.00713
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09290	0.00008	0.00004	0	0.00014	0.00011	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015
Grand Island, NE	**Boron**	0.02000	0.00001	0.00000	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	8.43000	0.00361	0.00170	0	0.01280	0.00954	0	0.00090	0.00010	0.00004	0	0.00500	0.01000	0	NA	0.01514
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	140.00000	0.05640	0.02660	0	0.20700	0.14800	0	0.02000	0.00200	0.00060	0	0.06010	0.20000	0	NA	0.26270
	Micronutrients	0.03930	0.00002	0.00001	0	0.00006	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00228	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	23.40000	0.00895	0.00422	0	0.03540	0.02620	0	0.00300	0.00020	0.00008	0	0.01000	0.02000	0	NA	0.03028
	NPK for P2O5	10.80000	0.00405	0.00191	0	0.01560	0.01150	0	0.00100	0.00009	0.00003	0	0.00400	0.01000	0	NA	0.01412
	P2O5 - 1	9.10000	0.00379	0.00179	0	0.01370	0.01040	0	0.00100	0.00010	0.00004	0	0.00500	0.01000	0	NA	0.01514
	Potash	0.17800	0.00008	0.00004	0	0.00027	0.00020	0	0.00002	0.00000	0.00000	0	0.00007	0.00010	0	NA	0.00017
	S as Nutrient	4.22000	0.00194	0.00091	0	0.00631	0.00451	0	0.00050	0.00005	0.00001	0	0.00200	0.00400	0	NA	0.00606
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09020	0.00004	0.00002	0	0.00014	0.00010	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015

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Harrisburg, PA	**Boron**	0.01890	0.00002	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	7.77000	0.00656	0.00309	0	0.01250	0.00952	0	0.00090	0.00030	0.00008	0	0.00500	0.01000	0	NA	0.01538
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	131.00000	0.11100	0.05230	0	0.20500	0.15400	0	0.01000	0.00301	0.00100	0	0.06010	0.20000	0	NA	0.26411
	Micronutrients	0.03730	0.00003	0.00002	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00210	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	21.90000	0.01780	0.00840	0	0.03480	0.02590	0	0.00300	0.00050	0.00020	0	0.00901	0.02000	0	NA	0.02971
	NPK for P2O5	10.30000	0.00856	0.00404	0	0.01560	0.01140	0	0.00100	0.00020	0.00005	0	0.00400	0.01000	0	NA	0.01425
	P2O5 - 1	8.46000	0.00716	0.00338	0	0.01330	0.01010	0	0.00100	0.00020	0.00008	0	0.00500	0.01000	0	NA	0.01528
	Potash	0.17200	0.00013	0.00006	0	0.00027	0.00020	0	0.00002	0.00000	0.00000	0	0.00007	0.00020	0	NA	0.00027
	S as Nutrient	3.95000	0.00336	0.00158	0	0.00614	0.00458	0	0.00040	0.00010	0.00003	0	0.00200	0.00400	0	NA	0.00613
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08610	0.00007	0.00004	0	0.00014	0.00010	0	0.00001	0.00000	0.00000	0	0.00004	0.00010	0	NA	0.00014
Hartford, CT	**Boron**	0.01810	0.00002	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00003	0	NA	0.00005
	Gypsum Products	7.53000	0.00594	0.00280	0	0.01190	0.00910	0	0.00080	0.00020	0.00007	0	0.00400	0.00901	0	NA	0.01328
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	128.00000	0.09540	0.04500	0	0.19200	0.14100	0	0.01000	0.00300	0.00090	0	0.06000	0.20000	0	NA	0.26390
	Micronutrients	0.03630	0.00003	0.00002	0	0.00006	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00206	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	21.90000	0.01600	0.00755	0	0.03370	0.02500	0	0.00201	0.00030	0.00010	0	0.00901	0.02000	0	NA	0.02941
	NPK for P2O5	9.71000	0.00840	0.00396	0	0.01540	0.01170	0	0.00100	0.00010	0.00004	0	0.00400	0.00901	0	NA	0.01315
	P2O5 - 1	8.19000	0.00616	0.00291	0	0.01310	0.00988	0	0.00090	0.00020	0.00007	0	0.00401	0.00901	0	NA	0.01329
	Potash	0.16700	0.00013	0.00006	0	0.00025	0.00019	0	0.00002	0.00000	0.00000	0	0.00007	0.00010	0	NA	0.00017
	S as Nutrient	3.84000	0.00296	0.00140	0	0.00595	0.00449	0	0.00040	0.00007	0.00002	0	0.00200	0.00400	0	NA	0.00609
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08480	0.00007	0.00003	0	0.00013	0.00010	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015
Houston, TX	**Boron**	0.01840	0.00002	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00003	0	NA	0.00005
	Gypsum Products	7.60000	0.00548	0.00258	0	0.01190	0.00910	0	0.00080	0.00020	0.00006	0	0.00400	0.01000	0	NA	0.01426
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	130.00000	0.08180	0.03860	0	0.18900	0.13900	0	0.01000	0.00201	0.00060	0	0.06000	0.10000	0	NA	0.16261
	Micronutrients	0.03530	0.00003	0.00001	0	0.00005	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00208	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	21.10000	0.01210	0.00570	0	0.03280	0.02390	0	0.00200	0.00030	0.00010	0	0.00901	0.02000	0	NA	0.02941
	NPK for P2O5	9.83000	0.00622	0.00293	0	0.01450	0.01070	0	0.00100	0.00010	0.00004	0	0.00301	0.00900	0	NA	0.01215
	P2O5 - 1	8.10000	0.00570	0.00269	0	0.01220	0.00946	0	0.00090	0.00010	0.00005	0	0.00401	0.01000	0	NA	0.01416
	Potash	0.16200	0.00010	0.00005	0	0.00024	0.00018	0	0.00002	0.00000	0.00000	0	0.00007	0.00020	0	NA	0.00027
	S as Nutrient	3.81000	0.00269	0.00127	0	0.00564	0.00420	0	0.00040	0.00007	0.00002	0	0.00200	0.00400	0	NA	0.00609
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08360	0.00007	0.00003	0	0.00013	0.00010	0	0.00001	0.00000	0.00000	0	0.00004	0.00010	0	NA	0.00014

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Huntington, WV	**Boron**	0.01890	0.00002	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	7.69000	0.00881	0.00416	0	0.01290	0.01000	0	0.00090	0.00040	0.00010	0	0.00500	0.01000	0	NA	0.01550
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	134.00000	0.15200	0.07160	0	0.21600	0.16600	0	0.01000	0.00401	0.00100	0	0.07000	0.20000	0	NA	0.27501
	Micronutrients	0.03690	0.00004	0.00002	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00002	0.00006	0	NA	0.00008
	Mn	0.00211	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	22.50000	0.02290	0.01080	0	0.03570	0.02650	0	0.00201	0.00050	0.00020	0	0.01000	0.02000	0	NA	0.03070
	NPK for P2O5	10.30000	0.01130	0.00535	0	0.01640	0.01250	0	0.00100	0.00020	0.00008	0	0.00400	0.01000	0	NA	0.01428
	P2O5 - 1	8.56000	0.00990	0.00467	0	0.01420	0.01100	0	0.00100	0.00030	0.00010	0	0.00500	0.01000	0	NA	0.01540
	Potash	0.16600	0.00019	0.00009	0	0.00028	0.00021	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	3.87000	0.00433	0.00204	0	0.00630	0.00489	0	0.00040	0.00010	0.00004	0	0.00200	0.00500	0	NA	0.00714
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08810	0.00010	0.00005	0	0.00014	0.00011	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015
Las Vegas, NV	**Boron**	0.02030	0.00001	0.00000	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00003	0	NA	0.00005
	Gypsum Products	8.17000	0.00316	0.00149	0	0.01220	0.00910	0	0.00090	0.00010	0.00004	0	0.00401	0.01000	0	NA	0.01415
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	144.00000	0.04440	0.02090	0	0.20800	0.14700	0	0.01000	0.00101	0.00050	0	0.06010	0.10000	0	NA	0.16161
	Micronutrients	0.03910	0.00001	0.00001	0	0.00006	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00225	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	24.00000	0.00734	0.00346	0	0.03400	0.02460	0	0.00300	0.00020	0.00007	0	0.00901	0.02000	0	NA	0.02928
	NPK for P2O5	10.90000	0.00385	0.00182	0	0.01640	0.01190	0	0.00100	0.00008	0.00003	0	0.00400	0.00901	0	NA	0.01312
	P2O5 - 1	9.09000	0.00324	0.00153	0	0.01330	0.00958	0	0.00100	0.00010	0.00003	0	0.00500	0.01000	0	NA	0.01513
	Potash	0.18600	0.00006	0.00003	0	0.00027	0.00020	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	4.27000	0.00156	0.00074	0	0.00606	0.00443	0	0.00050	0.00004	0.00001	0	0.00200	0.00400	0	NA	0.00605
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09300	0.00003	0.00002	0	0.00014	0.00010	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015
Los Angeles, CA	**Boron**	0.01990	0.00002	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	8.22000	0.00848	0.00400	0	0.01350	0.01040	0	0.00090	0.00030	0.00010	0	0.00500	0.01000	0	NA	0.01540
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	138.00000	0.14500	0.06840	0	0.22200	0.17000	0	0.02000	0.00401	0.00200	0	0.07000	0.20000	0	NA	0.27601
	Micronutrients	0.03890	0.00004	0.00002	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00002	0.00006	0	NA	0.00008
	Mn	0.00224	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	23.20000	0.02340	0.01100	0	0.03570	0.02720	0	0.00300	0.00060	0.00020	0	0.01000	0.02000	0	NA	0.03080
	NPK for P2O5	10.70000	0.01130	0.00532	0	0.01660	0.01260	0	0.00100	0.00020	0.00007	0	0.00401	0.01000	0	NA	0.01428
	P2O5 - 1	8.94000	0.00910	0.00429	0	0.01450	0.01130	0	0.00100	0.00030	0.00010	0	0.00500	0.01000	0	NA	0.01540
	Potash	0.17700	0.00019	0.00009	0	0.00029	0.00022	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	4.11000	0.00445	0.00210	0	0.00653	0.00516	0	0.00040	0.00010	0.00004	0	0.00200	0.00500	0	NA	0.00714
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09120	0.00010	0.00004	0	0.00015	0.00011	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015

99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Vanadium (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**	0.01750	0.00003	0.00002	0	0.00003	0.00003	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	7.22000	0.01400	0.00659	0	0.01310	0.01060	0	0.00080	0.00050	0.00020	0	0.00401	0.01000	0	NA	0.01471
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	121.00000	0.21000	0.09900	0	0.20800	0.16200	0	0.01000	0.00700	0.00200	0	0.07000	0.20000	0	NA	0.27900
	Micronutrients	0.03480	0.00007	0.00003	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00003	0.00006	0	NA	0.00009
	Mn	0.00195	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00001
	NPK as N	20.30000	0.03290	0.01550	0	0.03720	0.03030	0	0.00200	0.00080	0.00030	0	0.01000	0.02000	0	NA	0.03110
	NPK for P2O5	9.84000	0.01730	0.00815	0	0.01620	0.01370	0	0.00100	0.00030	0.00010	0	0.00400	0.01000	0	NA	0.01440
	P2O5 - 1	8.03000	0.01590	0.00751	0	0.01460	0.01210	0	0.00090	0.00040	0.00020	0	0.00401	0.01000	0	NA	0.01461
	Potash	0.15400	0.00028	0.00013	0	0.00028	0.00023	0	0.00002	0.00001	0.00000	0	0.00008	0.00020	0	NA	0.00029
	S as Nutrient	3.68000	0.00692	0.00326	0	0.00642	0.00526	0	0.00040	0.00020	0.00006	0	0.00200	0.00401	0	NA	0.00627
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08070	0.00015	0.00007	0	0.00015	0.00012	0	0.00001	0.00001	0.00000	0	0.00005	0.00010	0	NA	0.00016
Miami, FL	**Boron**	0.01800	0.00002	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00001	0.00003	0	NA	0.00004
	Gypsum Products	7.22000	0.00564	0.00266	0	0.01130	0.00845	0	0.00080	0.00010	0.00005	0	0.00400	0.00800	0	NA	0.01215
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	127.00000	0.05880	0.02770	0	0.18200	0.13000	0	0.01000	0.00200	0.00050	0	0.05010	0.10000	0	NA	0.15260
	Micronutrients	0.03550	0.00003	0.00001	0	0.00005	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Mn	0.00200	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	18.10000	0.00969	0.00457	0	0.02630	0.01930	0	0.00200	0.00020	0.00007	0	0.00800	0.02000	0	NA	0.02827
	NPK for P2O5	9.13000	0.00399	0.00188	0	0.01380	0.01020	0	0.00100	0.00008	0.00003	0	0.00300	0.00700	0	NA	0.01011
	P2O5 - 1	8.09000	0.00450	0.00212	0	0.01200	0.00875	0	0.00090	0.00010	0.00004	0	0.00400	0.00900	0	NA	0.01314
	Potash	0.14800	0.00006	0.00003	0	0.00022	0.00016	0	0.00002	0.00000	0.00000	0	0.00006	0.00010	0	NA	0.00016
	S as Nutrient	3.72000	0.00258	0.00122	0	0.00555	0.00415	0	0.00040	0.00004	0.00001	0	0.00200	0.00400	0	NA	0.00605
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08420	0.00005	0.00002	0	0.00012	0.00009	0	0.00001	0.00000	0.00000	0	0.00004	0.00010	0	NA	0.00014
Minneapolis, MN	**Boron**	0.01960	0.00004	0.00002	0	0.00003	0.00003	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Gypsum Products	8.24000	0.01330	0.00627	0	0.01430	0.01150	0	0.00090	0.00050	0.00010	0	0.00500	0.01000	0	NA	0.01560
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	138.00000	0.23600	0.11100	0	0.23400	0.18400	0	0.01010	0.00700	0.00200	0	0.08000	0.20000	0	NA	0.28900
	Micronutrients	0.03850	0.00007	0.00003	0	0.00007	0.00005	0	0.00000	0.00000	0.00000	0	0.00003	0.00007	0	NA	0.00010
	Mn	0.00217	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00001
	NPK as N	23.10000	0.03240	0.01530	0	0.03750	0.02960	0	0.00300	0.00090	0.00030	0	0.01000	0.02000	0	NA	0.03120
	NPK for P2O5	10.30000	0.01600	0.00757	0	0.01720	0.01390	0	0.00100	0.00030	0.00009	0	0.00401	0.01000	0	NA	0.01440
	P2O5 - 1	8.84000	0.01450	0.00683	0	0.01520	0.01220	0	0.00100	0.00040	0.00010	0	0.00600	0.01000	0	NA	0.01650
	Potash	0.17700	0.00028	0.00013	0	0.00030	0.00024	0	0.00002	0.00001	0.00000	0	0.00008	0.00020	0	NA	0.00029
	S as Nutrient	4.07000	0.00663	0.00313	0	0.00692	0.00546	0	0.00040	0.00020	0.00005	0	0.00300	0.00500	0	NA	0.00825
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09150	0.00016	0.00007	0	0.00016	0.00013	0	0.00001	0.00001	0.00000	0	0.00005	0.00010	0	NA	0.00016

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Philadelphia, PA	**Boron**	0.01850	0.00002	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	7.53000	0.00722	0.00340	0	0.01220	0.00963	0	0.00090	0.00030	0.00008	0	0.00500	0.01000	0	NA	0.01538
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	128.00000	0.11400	0.05350	0	0.19600	0.15200	0	0.01000	0.00300	0.00100	0	0.06000	0.10100	0	NA	0.16500
	Micronutrients	0.03640	0.00003	0.00002	0	0.00006	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00202	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	21.30000	0.01550	0.00731	0	0.03450	0.02590	0	0.00201	0.00040	0.00020	0	0.00901	0.02000	0	NA	0.02961
	NPK for P2O5	10.10000	0.00854	0.00403	0	0.01520	0.01140	0	0.00100	0.00020	0.00004	0	0.00400	0.00900	0	NA	0.01324
	P2O5 - 1	8.29000	0.00711	0.00336	0	0.01320	0.01000	0	0.00100	0.00020	0.00007	0	0.00401	0.01000	0	NA	0.01428
	Potash	0.17100	0.00017	0.00008	0	0.00027	0.00021	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	3.84000	0.00352	0.00166	0	0.00591	0.00460	0	0.00040	0.00009	0.00002	0	0.00200	0.00400	0	NA	0.00611
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08680	0.00008	0.00004	0	0.00013	0.00010	0	0.00001	0.00000	0.00000	0	0.00004	0.00010	0	NA	0.00014
Phoenix, AZ	**Boron**	0.02040	0.00001	0.00000	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	8.18000	0.00354	0.00167	0	0.01260	0.00942	0	0.00090	0.00020	0.00005	0	0.00401	0.01000	0	NA	0.01426
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	142.00000	0.05880	0.02770	0	0.20700	0.15300	0	0.02000	0.00200	0.00060	0	0.06010	0.20000	0	NA	0.26270
	Micronutrients	0.03970	0.00002	0.00001	0	0.00006	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00227	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	23.40000	0.00986	0.00465	0	0.03550	0.02580	0	0.00300	0.00020	0.00009	0	0.00901	0.02000	0	NA	0.02930
	NPK for P2O5	11.20000	0.00465	0.00219	0	0.01590	0.01190	0	0.00100	0.00009	0.00003	0	0.00400	0.01000	0	NA	0.01412
	P2O5 - 1	9.11000	0.00398	0.00188	0	0.01370	0.01030	0	0.00100	0.00010	0.00004	0	0.00500	0.01000	0	NA	0.01514
	Potash	0.18000	0.00008	0.00004	0	0.00028	0.00020	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	4.18000	0.00178	0.00084	0	0.00606	0.00447	0	0.00050	0.00005	0.00001	0	0.00200	0.00400	0	NA	0.00606
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09290	0.00004	0.00002	0	0.00014	0.00010	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015
Portland, ME	**Boron**	0.01730	0.00003	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	7.34000	0.01200	0.00566	0	0.01290	0.01020	0	0.00080	0.00050	0.00010	0	0.00500	0.01000	0	NA	0.01560
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	123.00000	0.18700	0.08830	0	0.20600	0.16200	0	0.01000	0.00501	0.00200	0	0.06010	0.20000	0	NA	0.26711
	Micronutrients	0.03410	0.00006	0.00003	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00198	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	20.20000	0.02850	0.01340	0	0.03280	0.02610	0	0.00200	0.00070	0.00030	0	0.00901	0.02000	0	NA	0.03001
	NPK for P2O5	9.37000	0.01400	0.00659	0	0.01590	0.01250	0	0.00100	0.00030	0.00009	0	0.00400	0.00901	0	NA	0.01340
	P2O5 - 1	7.81000	0.01190	0.00562	0	0.01350	0.01090	0	0.00090	0.00030	0.00010	0	0.00401	0.01000	0	NA	0.01441
	Potash	0.15400	0.00022	0.00010	0	0.00026	0.00020	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	3.75000	0.00684	0.00323	0	0.00653	0.00524	0	0.00040	0.00020	0.00005	0	0.00200	0.00400	0	NA	0.00625
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08060	0.00014	0.00006	0	0.00014	0.00011	0	0.00001	0.00000	0.00000	0	0.00004	0.00010	0	NA	0.00015

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Raleigh-Durham, NC	**Boron**	0.01790	0.00005	0.00002	0	0.00003	0.00003	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Gypsum Products	7.48000	0.01590	0.00750	0	0.01340	0.01090	0	0.00090	0.00060	0.00020	0	0.00500	0.01000	0	NA	0.01580
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	127.00000	0.24800	0.11700	0	0.21600	0.17900	0	0.01000	0.00800	0.00300	0	0.07000	0.20000	0	NA	0.28100
	Micronutrients	0.03550	0.00008	0.00004	0	0.00007	0.00005	0	0.00000	0.00000	0.00000	0	0.00002	0.00007	0	NA	0.00009
	Mn	0.00204	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00001
	NPK as N	20.90000	0.03390	0.01600	0	0.03590	0.02890	0	0.00200	0.00090	0.00030	0	0.01000	0.02000	0	NA	0.03120
	NPK for P2O5	9.98000	0.02110	0.00996	0	0.01620	0.01350	0	0.00100	0.00040	0.00010	0	0.00400	0.01000	0	NA	0.01450
	P2O5 - 1	8.20000	0.01750	0.00826	0	0.01440	0.01210	0	0.00090	0.00050	0.00020	0	0.00500	0.01000	0	NA	0.01570
	Potash	0.16700	0.00035	0.00017	0	0.00029	0.00023	0	0.00002	0.00001	0.00000	0	0.00008	0.00020	0	NA	0.00029
	S as Nutrient	3.82000	0.00799	0.00377	0	0.00646	0.00525	0	0.00040	0.00020	0.00006	0	0.00300	0.00500	0	NA	0.00826
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08540	0.00021	0.00010	0	0.00015	0.00013	0	0.00001	0.00001	0.00000	0	0.00005	0.00010	0	NA	0.00016
Salem, OR	**Boron**	0.01850	0.00002	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	7.59000	0.00637	0.00301	0	0.01230	0.00947	0	0.00080	0.00030	0.00007	0	0.00401	0.01000	0	NA	0.01438
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	130.00000	0.10500	0.04930	0	0.20100	0.14900	0	0.01000	0.00300	0.00100	0	0.07000	0.10000	0	NA	0.17400
	Micronutrients	0.03630	0.00003	0.00001	0	0.00006	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00207	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	21.30000	0.01570	0.00739	0	0.03330	0.02510	0	0.00300	0.00040	0.00020	0	0.00901	0.02000	0	NA	0.02961
	NPK for P2O5	10.20000	0.00762	0.00359	0	0.01570	0.01140	0	0.00100	0.00010	0.00005	0	0.00400	0.00901	0	NA	0.01316
	P2O5 - 1	8.44000	0.00698	0.00329	0	0.01320	0.01010	0	0.00100	0.00020	0.00007	0	0.00500	0.01000	0	NA	0.01527
	Potash	0.16300	0.00013	0.00006	0	0.00026	0.00020	0	0.00002	0.00000	0.00000	0	0.00007	0.00020	0	NA	0.00027
	S as Nutrient	3.87000	0.00322	0.00152	0	0.00597	0.00456	0	0.00040	0.00007	0.00002	0	0.00200	0.00400	0	NA	0.00609
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.08600	0.00007	0.00003	0	0.00013	0.00010	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015
Salt Lake City, UT	**Boron**	0.02050	0.00003	0.00001	0	0.00003	0.00003	0	0.00000	0.00000	0.00000	0	0.00002	0.00004	0	NA	0.00006
	Gypsum Products	8.40000	0.01060	0.00500	0	0.01390	0.01130	0	0.00090	0.00050	0.00010	0	0.00500	0.01000	0	NA	0.01560
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	148.00000	0.16400	0.07730	0	0.22900	0.17600	0	0.02000	0.00500	0.00101	0	0.07000	0.20000	0	NA	0.27601
	Micronutrients	0.04050	0.00006	0.00003	0	0.00007	0.00005	0	0.00001	0.00000	0.00000	0	0.00003	0.00006	0	NA	0.00009
	Mn	0.00228	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00001
	NPK as N	24.50000	0.02630	0.01240	0	0.03870	0.03030	0	0.00300	0.00070	0.00020	0	0.01000	0.02000	0	NA	0.03090
	NPK for P2O5	11.00000	0.01320	0.00621	0	0.01780	0.01410	0	0.00100	0.00030	0.00009	0	0.00401	0.01000	0	NA	0.01440
	P2O5 - 1	9.31000	0.01170	0.00551	0	0.01570	0.01240	0	0.00100	0.00030	0.00010	0	0.00501	0.01000	0	NA	0.01541
	Potash	0.17900	0.00020	0.00010	0	0.00029	0.00023	0	0.00002	0.00000	0.00000	0	0.00008	0.00020	0	NA	0.00028
	S as Nutrient	4.42000	0.00543	0.00256	0	0.00714	0.00569	0	0.00050	0.00020	0.00004	0	0.00300	0.00500	0	NA	0.00824
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09630	0.00012	0.00006	0	0.00016	0.00012	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00016

99th Percentile Media Concentrations and Risks from Application of Fertilizer Products
Vanadium (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	0.02010	0.00001	0.00001	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00003	0	NA	0.00005
	Gypsum Products	8.32000	0.00565	0.00266	0	0.01310	0.00975	0	0.00090	0.00020	0.00007	0	0.00500	0.01000	0	NA	0.01527
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	141.00000	0.09210	0.04340	0	0.21100	0.15600	0	0.02000	0.00300	0.00080	0	0.07000	0.20000	0	NA	0.27380
	Micronutrients	0.03950	0.00003	0.00001	0	0.00006	0.00005	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00224	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	24.10000	0.01610	0.00759	0	0.03610	0.02630	0	0.00300	0.00040	0.00010	0	0.00901	0.02000	0	NA	0.02951
	NPK for P2O5	10.70000	0.00716	0.00338	0	0.01560	0.01170	0	0.00100	0.00010	0.00005	0	0.00400	0.01000	0	NA	0.01415
	P2O5 - 1	8.85000	0.00601	0.00284	0	0.01320	0.00998	0	0.00090	0.00020	0.00006	0	0.00500	0.01000	0	NA	0.01526
	Potash	0.18300	0.00012	0.00006	0	0.00028	0.00021	0	0.00002	0.00000	0.00000	0	0.00007	0.00020	0	NA	0.00027
	S as Nutrient	4.11000	0.00283	0.00133	0	0.00607	0.00458	0	0.00040	0.00009	0.00002	0	0.00200	0.00400	0	NA	0.00611
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09160	0.00006	0.00003	0	0.00014	0.00010	0	0.00001	0.00000	0.00000	0	0.00005	0.00010	0	NA	0.00015
Winnemucca, NV	Boron	0.02020	0.00000	0.00000	0	0.00003	0.00002	0	0.00000	0.00000	0.00000	0	0.00002	0.00003	0	NA	0.00005
	Gypsum Products	8.20000	0.00137	0.00065	0	0.01200	0.00881	0	0.00090	0.00005	0.00002	0	0.00401	0.00900	0	NA	0.01308
	Iron	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Liming Materials	139.00000	0.02300	0.01090	0	0.19400	0.14100	0	0.02000	0.00070	0.00020	0	0.06010	0.10000	0	NA	0.16100
	Micronutrients	0.03940	0.00001	0.00000	0	0.00006	0.00004	0	0.00000	0.00000	0.00000	0	0.00002	0.00005	0	NA	0.00007
	Mn	0.00231	0.00000	0.00000	0	0.00000	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0.00000	0	NA	0.00000
	NPK as N	22.60000	0.00350	0.00165	0	0.03250	0.02320	0	0.00300	0.00009	0.00003	0	0.00901	0.02000	0	NA	0.02913
	NPK for P2O5	10.80000	0.00175	0.00083	0	0.01470	0.01090	0	0.00100	0.00003	0.00001	0	0.00400	0.00901	0	NA	0.01305
	P2O5 - 1	9.12000	0.00148	0.00070	0	0.01330	0.00972	0	0.00100	0.00005	0.00002	0	0.00500	0.01000	0	NA	0.01507
	Potash	0.18500	0.00003	0.00001	0	0.00026	0.00019	0	0.00002	0.00000	0.00000	0	0.00008	0.00010	0	NA	0.00018
	S as Nutrient	4.21000	0.00074	0.00035	0	0.00606	0.00429	0	0.00050	0.00002	0.00001	0	0.00200	0.00400	0	NA	0.00603
	S as Ph	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	0	NA	NA
	Zinc	0.09240	0.00001	0.00001	0	0.00013	0.00010	0	0.00001	0.00000	0.00000	0	0.00004	0.00010	0	NA	0.00014

[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.