

US EPA ARCHIVE DOCUMENT

99th Percentile Risks from Application of Fertilizer Products
Cadmium (Child)

Climate Region	Product	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	0.00002	0.00030	0.00050	0.00006	0.00001	0.00000	0.00000	0.00000	0.00087
	Gypsum Products	0.00601	0.08000	0.10000	0.02000	0.00100	0.00030	0.00003	0.00000	0.20130
	Iron	0.02010	0.40000	0.50000	0.08020	0.00500	0.00100	0.00010	0.00000	0.98620
	Liming Materials	0.03000	0.50000	0.40100	0.08000	0.00700	0.00200	0.00010	0.00000	0.99000
	Micronutrients	0.00080	0.01000	0.01000	0.00400	0.00020	0.00004	0.00000	0.00000	0.02424
	Mn	0.00006	0.00100	0.00101	0.00020	0.00001	0.00000	0.00000	0.00000	0.00222
	NPK as N	0.01010	0.20000	0.30000	0.03000	0.00200	0.00050	0.00004	0.00000	0.53250
	NPK for P2O5	0.02000	0.20000	0.30000	0.07000	0.00300	0.00100	0.00009	0.00000	0.57400
	P2O5 - 1	0.02010	0.30000	0.50000	0.07000	0.00500	0.00100	0.00008	0.00000	0.87600
	Potash	0.00040	0.00400	0.00600	0.00090	0.00006	0.00001	0.00000	0.00000	0.01097
	S as Nutrient	0.02000	0.20000	0.30000	0.04020	0.00300	0.00090	0.00007	0.00000	0.54410
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.01010	0.20000	0.30000	0.04010	0.00300	0.00080	0.00008	0.00000	0.54390
	Albuquerque, NM	Boron	0.00003	0.00030	0.00040	0.00007	0.00001	0.00000	0.00000	0.00000
Gypsum Products		0.00700	0.09000	0.10000	0.02010	0.00200	0.00030	0.00001	0.00000	0.21240
Iron		0.03000	0.40000	0.60000	0.09010	0.00600	0.00200	0.00004	0.00000	1.09810
Liming Materials		0.04000	0.50000	0.40100	0.09000	0.00701	0.00200	0.00005	0.00000	1.00001
Micronutrients		0.00100	0.01000	0.01000	0.00400	0.00020	0.00006	0.00000	0.00000	0.02426
Mn		0.00007	0.00100	0.00200	0.00020	0.00002	0.00000	0.00000	0.00000	0.00322
NPK as N		0.02000	0.20000	0.30000	0.03000	0.00300	0.00070	0.00001	0.00000	0.53370
NPK for P2O5		0.02010	0.30000	0.40000	0.08000	0.00400	0.00101	0.00002	0.00000	0.78501
P2O5 - 1		0.03000	0.40000	0.50000	0.08000	0.00600	0.00100	0.00003	0.00000	0.98700
Potash		0.00030	0.00400	0.00600	0.00100	0.00009	0.00002	0.00000	0.00000	0.01111
S as Nutrient		0.02000	0.20100	0.30100	0.07000	0.00300	0.00100	0.00002	0.00000	0.57600
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.02000	0.30000	0.30000	0.05000	0.00300	0.00100	0.00004	0.00000	0.65400
Atlanta, GA		Boron	0.00002	0.00030	0.00040	0.00006	0.00001	0.00000	0.00000	0.00000
	Gypsum Products	0.00601	0.07010	0.10000	0.02000	0.00100	0.00030	0.00002	0.00000	0.19140
	Iron	0.02000	0.40000	0.50000	0.08010	0.00500	0.00100	0.00008	0.00000	0.98610
	Liming Materials	0.03000	0.40000	0.40100	0.08000	0.00601	0.00200	0.00007	0.00000	0.88901
	Micronutrients	0.00080	0.01000	0.01000	0.00400	0.00020	0.00004	0.00000	0.00000	0.02424
	Mn	0.00006	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00221
	NPK as N	0.01010	0.20000	0.30000	0.02000	0.00200	0.00060	0.00002	0.00000	0.52260
	NPK for P2O5	0.02000	0.20000	0.30000	0.07000	0.00300	0.00100	0.00005	0.00000	0.57400
	P2O5 - 1	0.02000	0.30000	0.40000	0.06000	0.00501	0.00100	0.00005	0.00000	0.76601
	Potash	0.00030	0.00301	0.00501	0.00090	0.00006	0.00001	0.00000	0.00000	0.00899
	S as Nutrient	0.02000	0.20000	0.30000	0.04010	0.00300	0.00080	0.00004	0.00000	0.54390
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20000	0.20100	0.04010	0.00201	0.00080	0.00004	0.00000	0.44391

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Cadmium (Child)

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Bismarck, ND	Boron	0.00002	0.00030	0.00040	0.00007	0.00001	0.00000	0.00000	0.00000	0.00078
	Gypsum Products	0.00601	0.08000	0.10000	0.02000	0.00101	0.00030	0.00002	0.00000	0.20131
	Iron	0.03000	0.40100	0.60000	0.09010	0.00500	0.00100	0.00006	0.00000	1.09710
	Liming Materials	0.03010	0.40100	0.50000	0.08010	0.00701	0.00200	0.00007	0.00000	0.99011
	Micronutrients	0.00100	0.01000	0.01010	0.00400	0.00020	0.00005	0.00000	0.00000	0.02435
	Mn	0.00007	0.00100	0.00200	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
	NPK as N	0.02000	0.20000	0.30100	0.03000	0.00201	0.00070	0.00003	0.00000	0.53371
	NPK for P2O5	0.02000	0.20100	0.40000	0.07000	0.00301	0.00100	0.00003	0.00000	0.67501
	P2O5 - 1	0.03000	0.30100	0.50000	0.07010	0.00600	0.00100	0.00005	0.00000	0.87810
	Potash	0.00030	0.00400	0.00501	0.00100	0.00007	0.00001	0.00000	0.00000	0.01009
	S as Nutrient	0.02000	0.20000	0.30100	0.05010	0.00300	0.00100	0.00004	0.00000	0.55510
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.30000	0.30000	0.05000	0.00300	0.00090	0.00005	0.00000	0.65390
	Boise, ID	Boron	0.00003	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000
Gypsum Products		0.00700	0.10000	0.10000	0.02010	0.00200	0.00030	0.00002	0.00000	0.22240
Iron		0.04000	0.40100	0.60000	0.09010	0.00600	0.00200	0.00007	0.00000	1.09910
Liming Materials		0.04000	0.50000	0.50000	0.09000	0.00800	0.00200	0.00006	0.00000	1.10000
Micronutrients		0.00100	0.01000	0.02000	0.00400	0.00020	0.00006	0.00000	0.00000	0.03426
Mn		0.00008	0.00100	0.00200	0.00020	0.00002	0.00000	0.00000	0.00000	0.00322
NPK as N		0.02000	0.20000	0.40000	0.03000	0.00300	0.00070	0.00003	0.00000	0.63370
NPK for P2O5		0.02000	0.30000	0.40000	0.08000	0.00400	0.00101	0.00005	0.00000	0.78501
P2O5 - 1		0.03000	0.40100	0.50000	0.08000	0.00601	0.00100	0.00006	0.00000	0.98801
Potash		0.00040	0.00400	0.00600	0.00100	0.00009	0.00002	0.00000	0.00000	0.01111
S as Nutrient		0.02000	0.20100	0.40000	0.07000	0.00300	0.00100	0.00004	0.00000	0.67500
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.02000	0.30000	0.30000	0.05000	0.00300	0.00100	0.00006	0.00000	0.65400
Boulder, CO		Boron	0.00003	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000
	Gypsum Products	0.00700	0.09000	0.10000	0.02010	0.00200	0.00030	0.00002	0.00000	0.21240
	Iron	0.03000	0.40000	0.60000	0.09010	0.00501	0.00200	0.00008	0.00000	1.09711
	Liming Materials	0.03010	0.50000	0.40100	0.08010	0.00701	0.00200	0.00008	0.00000	0.99011
	Micronutrients	0.00100	0.01000	0.01010	0.00400	0.00020	0.00006	0.00000	0.00000	0.02436
	Mn	0.00007	0.00100	0.00200	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
	NPK as N	0.02000	0.20000	0.30100	0.03000	0.00300	0.00070	0.00002	0.00000	0.53470
	NPK for P2O5	0.02010	0.30000	0.40000	0.07010	0.00400	0.00101	0.00005	0.00000	0.77511
	P2O5 - 1	0.03000	0.40000	0.50000	0.08000	0.00600	0.00100	0.00006	0.00000	0.98700
	Potash	0.00030	0.00400	0.00600	0.00100	0.00009	0.00002	0.00000	0.00000	0.01111
	S as Nutrient	0.02000	0.20100	0.30100	0.06010	0.00300	0.00100	0.00004	0.00000	0.56610
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.30000	0.30000	0.05000	0.00300	0.00100	0.00008	0.00000	0.65400

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Casper, WY	Boron	0.00002	0.00030	0.00040	0.00007	0.00001	0.00000	0.00000	0.00000	0.00078
	Gypsum Products	0.00601	0.08010	0.10000	0.02000	0.00101	0.00040	0.00002	0.00000	0.20151
	Iron	0.03000	0.40000	0.60000	0.08020	0.00500	0.00100	0.00007	0.00000	1.08620
	Liming Materials	0.03000	0.50000	0.40100	0.08010	0.00701	0.00200	0.00010	0.00000	0.99011
	Micronutrients	0.00100	0.01000	0.01000	0.00400	0.00020	0.00005	0.00000	0.00000	0.02425
	Mn	0.00007	0.00100	0.00200	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
	NPK as N	0.01010	0.20000	0.30100	0.03000	0.00300	0.00070	0.00003	0.00000	0.53470
	NPK for P2O5	0.02000	0.30000	0.40000	0.07000	0.00301	0.00100	0.00004	0.00000	0.77401
	P2O5 - 1	0.03000	0.30100	0.50000	0.08000	0.00600	0.00100	0.00006	0.00000	0.88800
	Potash	0.00030	0.00400	0.00600	0.00100	0.00009	0.00002	0.00000	0.00000	0.01111
	S as Nutrient	0.02000	0.20000	0.30000	0.05010	0.00300	0.00100	0.00005	0.00000	0.55410
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20000	0.30000	0.05000	0.00300	0.00090	0.00005	0.00000	0.55390
	Charleston, SC	Boron	0.00002	0.00030	0.00040	0.00006	0.00001	0.00000	0.00000	0.00000
Gypsum Products		0.00601	0.07010	0.10000	0.02000	0.00100	0.00030	0.00006	0.00000	0.19140
Iron		0.02000	0.40000	0.50000	0.08020	0.00500	0.00100	0.00020	0.00000	0.98620
Liming Materials		0.03000	0.40100	0.40100	0.08010	0.00601	0.00200	0.00020	0.00000	0.89011
Micronutrients		0.00070	0.01000	0.01000	0.00400	0.00020	0.00004	0.00001	0.00000	0.02424
Mn		0.00006	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00221
NPK as N		0.01000	0.20000	0.30000	0.02000	0.00200	0.00050	0.00008	0.00000	0.52250
NPK for P2O5		0.02000	0.20000	0.30000	0.07000	0.00300	0.00100	0.00010	0.00000	0.57400
P2O5 - 1		0.02000	0.30000	0.40000	0.06000	0.00500	0.00100	0.00020	0.00000	0.76600
Potash		0.00030	0.00300	0.00501	0.00090	0.00006	0.00001	0.00000	0.00000	0.00898
S as Nutrient		0.02000	0.20000	0.30000	0.05000	0.00300	0.00080	0.00010	0.00000	0.55380
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.01000	0.20000	0.30000	0.04000	0.00300	0.00080	0.00010	0.00000	0.54380
Chicago, IL		Boron	0.00002	0.00030	0.00050	0.00006	0.00001	0.00000	0.00000	0.00000
	Gypsum Products	0.00601	0.08000	0.10000	0.02000	0.00100	0.00030	0.00005	0.00000	0.20130
	Iron	0.03000	0.40000	0.60000	0.08020	0.00500	0.00100	0.00020	0.00000	1.08620
	Liming Materials	0.03000	0.40100	0.40100	0.08010	0.00700	0.00200	0.00020	0.00000	0.89110
	Micronutrients	0.00080	0.01000	0.01000	0.00400	0.00020	0.00004	0.00001	0.00000	0.02424
	Mn	0.00006	0.00100	0.00101	0.00020	0.00001	0.00000	0.00000	0.00000	0.00222
	NPK as N	0.01010	0.20000	0.30000	0.03000	0.00200	0.00050	0.00007	0.00000	0.53250
	NPK for P2O5	0.02000	0.20100	0.30000	0.07000	0.00300	0.00100	0.00010	0.00000	0.57500
	P2O5 - 1	0.02010	0.30000	0.40100	0.07000	0.00501	0.00100	0.00010	0.00000	0.77701
	Potash	0.00040	0.00400	0.00501	0.00090	0.00006	0.00001	0.00000	0.00000	0.00998
	S as Nutrient	0.02000	0.20000	0.30000	0.05010	0.00300	0.00090	0.00010	0.00000	0.55400
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20100	0.30000	0.04010	0.00300	0.00090	0.00010	0.00000	0.54500

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Cadmium (Child)

Climate Region	Product	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	0.00002	0.00030	0.00050	0.00006	0.00001	0.00000	0.00000	0.00000	0.00087
	Gypsum Products	0.00601	0.08000	0.10000	0.02000	0.00100	0.00030	0.00004	0.00000	0.20130
	Iron	0.03000	0.40000	0.50000	0.08020	0.00500	0.00100	0.00020	0.00000	0.98620
	Liming Materials	0.03000	0.40100	0.50000	0.08000	0.00700	0.00200	0.00020	0.00000	0.99000
	Micronutrients	0.00090	0.01000	0.02000	0.00400	0.00020	0.00004	0.00000	0.00000	0.03424
	Mn	0.00006	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00221
	NPK as N	0.02000	0.20000	0.30000	0.02010	0.00200	0.00050	0.00007	0.00000	0.52260
	NPK for P2O5	0.02000	0.20000	0.30100	0.07010	0.00300	0.00100	0.00009	0.00000	0.57510
	P2O5 - 1	0.02010	0.30000	0.40100	0.07000	0.00600	0.00100	0.00010	0.00000	0.77800
	Potash	0.00030	0.00400	0.00600	0.00100	0.00006	0.00001	0.00000	0.00000	0.01107
	S as Nutrient	0.02000	0.20000	0.30000	0.05010	0.00300	0.00090	0.00010	0.00000	0.55400
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20000	0.30000	0.05000	0.00300	0.00090	0.00010	0.00000	0.55390
	Fresno, CA	Boron	0.00003	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000
Gypsum Products		0.00700	0.09000	0.10000	0.02000	0.00200	0.00030	0.00001	0.00000	0.21230
Iron		0.03000	0.40000	0.60000	0.09010	0.00501	0.00200	0.00006	0.00000	1.09711
Liming Materials		0.03000	0.50000	0.40100	0.09000	0.00701	0.00200	0.00006	0.00000	1.00001
Micronutrients		0.00100	0.01000	0.01010	0.00400	0.00020	0.00006	0.00000	0.00000	0.02436
Mn		0.00008	0.00100	0.00200	0.00020	0.00002	0.00000	0.00000	0.00000	0.00322
NPK as N		0.02000	0.20000	0.30100	0.03000	0.00300	0.00070	0.00002	0.00000	0.53470
NPK for P2O5		0.02000	0.30000	0.40000	0.08000	0.00301	0.00101	0.00004	0.00000	0.78402
P2O5 - 1		0.03000	0.40000	0.50000	0.08010	0.00600	0.00100	0.00005	0.00000	0.98710
Potash		0.00040	0.00400	0.00600	0.00100	0.00009	0.00002	0.00000	0.00000	0.01111
S as Nutrient		0.02000	0.20100	0.40000	0.06010	0.00300	0.00100	0.00004	0.00000	0.66510
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.02000	0.30000	0.30000	0.05000	0.00300	0.00100	0.00006	0.00000	0.65400
Grand Island, NE		Boron	0.00003	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000
	Gypsum Products	0.00601	0.08010	0.10000	0.02000	0.00101	0.00040	0.00005	0.00000	0.20151
	Iron	0.03000	0.40000	0.60000	0.08020	0.00501	0.00101	0.00020	0.00000	1.08622
	Liming Materials	0.03010	0.50000	0.40100	0.08010	0.00701	0.00200	0.00020	0.00000	0.99011
	Micronutrients	0.00100	0.01000	0.01010	0.00400	0.00020	0.00005	0.00001	0.00000	0.02435
	Mn	0.00007	0.00100	0.00200	0.00020	0.00002	0.00000	0.00000	0.00000	0.00322
	NPK as N	0.02000	0.20000	0.30100	0.03000	0.00201	0.00070	0.00007	0.00000	0.53371
	NPK for P2O5	0.02000	0.20100	0.40000	0.07000	0.00300	0.00100	0.00010	0.00000	0.67500
	P2O5 - 1	0.03000	0.40000	0.50000	0.08000	0.00600	0.00100	0.00010	0.00000	0.98700
	Potash	0.00030	0.00400	0.00600	0.00100	0.00008	0.00002	0.00000	0.00000	0.01110
	S as Nutrient	0.02000	0.20000	0.30000	0.05010	0.00300	0.00100	0.00010	0.00000	0.55410
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20100	0.30000	0.05000	0.00300	0.00090	0.00020	0.00000	0.55490

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Harrisburg, PA	Boron	0.00002	0.00030	0.00050	0.00006	0.00001	0.00000	0.00000	0.00000	0.00087
	Gypsum Products	0.00601	0.08000	0.10000	0.02000	0.00100	0.00030	0.00005	0.00000	0.20130
	Iron	0.03000	0.40000	0.50000	0.08020	0.00500	0.00100	0.00020	0.00000	0.98620
	Liming Materials	0.03000	0.40100	0.40200	0.08010	0.00601	0.00200	0.00020	0.00000	0.89111
	Micronutrients	0.00080	0.01000	0.01010	0.00400	0.00020	0.00004	0.00001	0.00000	0.02434
	Mn	0.00006	0.00100	0.00101	0.00020	0.00001	0.00000	0.00000	0.00000	0.00222
	NPK as N	0.02000	0.20000	0.30000	0.03000	0.00200	0.00060	0.00007	0.00000	0.53260
	NPK for P2O5	0.02000	0.20100	0.30000	0.07010	0.00300	0.00100	0.00010	0.00000	0.57510
	P2O5 - 1	0.02000	0.30000	0.50000	0.07000	0.00501	0.00100	0.00010	0.00000	0.87601
	Potash	0.00030	0.00400	0.00600	0.00090	0.00006	0.00001	0.00000	0.00000	0.01097
	S as Nutrient	0.02000	0.20000	0.30000	0.05010	0.00300	0.00090	0.00010	0.00000	0.55400
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20000	0.30000	0.04010	0.00300	0.00090	0.00020	0.00000	0.54400
	Hartford, CT	Boron	0.00002	0.00030	0.00040	0.00006	0.00001	0.00000	0.00000	0.00000
Gypsum Products		0.00601	0.07010	0.10000	0.02000	0.00100	0.00030	0.00005	0.00000	0.19140
Iron		0.02010	0.40000	0.50000	0.08020	0.00500	0.00100	0.00020	0.00000	0.98620
Liming Materials		0.03000	0.50000	0.40100	0.08000	0.00601	0.00200	0.00020	0.00000	0.98901
Micronutrients		0.00080	0.01000	0.01000	0.00400	0.00020	0.00004	0.00001	0.00000	0.02424
Mn		0.00006	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00221
NPK as N		0.01010	0.20000	0.30000	0.02000	0.00200	0.00060	0.00006	0.00000	0.52260
NPK for P2O5		0.02000	0.20000	0.30000	0.07000	0.00300	0.00100	0.00010	0.00000	0.57400
P2O5 - 1		0.02000	0.30000	0.40100	0.07000	0.00500	0.00100	0.00010	0.00000	0.77700
Potash		0.00030	0.00400	0.00501	0.00090	0.00006	0.00001	0.00000	0.00000	0.00998
S as Nutrient		0.02000	0.20000	0.30000	0.04020	0.00300	0.00080	0.00010	0.00000	0.54400
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.01010	0.20000	0.30000	0.04000	0.00300	0.00080	0.00010	0.00000	0.54380
Houston, TX		Boron	0.00002	0.00030	0.00050	0.00006	0.00001	0.00000	0.00000	0.00000
	Gypsum Products	0.00502	0.08000	0.10000	0.02000	0.00100	0.00030	0.00010	0.00000	0.20130
	Iron	0.02010	0.40000	0.50000	0.08020	0.00500	0.00100	0.00030	0.00000	0.98620
	Liming Materials	0.03000	0.40100	0.40100	0.08000	0.00601	0.00200	0.00050	0.00000	0.89001
	Micronutrients	0.00080	0.01000	0.01010	0.00400	0.00020	0.00004	0.00001	0.00000	0.02434
	Mn	0.00006	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00221
	NPK as N	0.02000	0.20000	0.30000	0.03000	0.00200	0.00060	0.00020	0.00000	0.53260
	NPK for P2O5	0.02000	0.20000	0.30000	0.07010	0.00300	0.00100	0.00020	0.00000	0.57410
	P2O5 - 1	0.02010	0.30000	0.50000	0.07000	0.00501	0.00100	0.00030	0.00000	0.87601
	Potash	0.00030	0.00400	0.00500	0.00090	0.00005	0.00001	0.00000	0.00000	0.00996
	S as Nutrient	0.02000	0.20000	0.30000	0.04010	0.00300	0.00090	0.00020	0.00000	0.54400
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20000	0.30000	0.05000	0.00201	0.00080	0.00030	0.00000	0.55281

99th Percentile Risks from Application of Fertilizer Products
Cadmium (Child)

Climate Region	Product	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
Huntington, WV	Boron	0.00002	0.00030	0.00050	0.00006	0.00001	0.00000	0.00000	0.00000	0.00087
	Gypsum Products	0.00601	0.08000	0.10000	0.02000	0.00100	0.00030	0.00004	0.00000	0.20130
	Iron	0.03000	0.40000	0.50000	0.08020	0.00500	0.00100	0.00020	0.00000	0.98620
	Liming Materials	0.03000	0.40100	0.50100	0.08010	0.00601	0.00200	0.00020	0.00000	0.99011
	Micronutrients	0.00080	0.01000	0.01010	0.00400	0.00020	0.00004	0.00001	0.00000	0.02434
	Mn	0.00006	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00221
	NPK as N	0.02000	0.20000	0.30000	0.03000	0.00200	0.00060	0.00007	0.00000	0.53260
	NPK for P2O5	0.02000	0.20000	0.30000	0.07010	0.00300	0.00100	0.00009	0.00000	0.57410
	P2O5 - 1	0.02010	0.30000	0.50000	0.07000	0.00600	0.00100	0.00010	0.00000	0.87700
	Potash	0.00030	0.00400	0.00600	0.00090	0.00006	0.00001	0.00000	0.00000	0.01097
	S as Nutrient	0.02000	0.20000	0.30000	0.04020	0.00300	0.00090	0.00010	0.00000	0.54410
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20000	0.30000	0.05000	0.00300	0.00080	0.00010	0.00000	0.55380
	Las Vegas, NV	Boron	0.00003	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000
Gypsum Products		0.00700	0.09000	0.10000	0.02010	0.00200	0.00030	0.00001	0.00000	0.21240
Iron		0.03010	0.40000	0.60000	0.09010	0.00500	0.00200	0.00004	0.00000	1.09710
Liming Materials		0.03010	0.50000	0.50000	0.08010	0.00701	0.00200	0.00004	0.00000	1.08911
Micronutrients		0.00100	0.01000	0.02000	0.00400	0.00020	0.00006	0.00000	0.00000	0.03426
Mn		0.00007	0.00100	0.00200	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
NPK as N		0.02000	0.20000	0.30100	0.03000	0.00300	0.00070	0.00002	0.00000	0.53470
NPK for P2O5		0.02000	0.30000	0.40000	0.08000	0.00400	0.00101	0.00003	0.00000	0.78501
P2O5 - 1		0.03000	0.40000	0.50000	0.08000	0.00600	0.00100	0.00003	0.00000	0.98700
Potash		0.00030	0.00400	0.00600	0.00100	0.00009	0.00002	0.00000	0.00000	0.01111
S as Nutrient		0.02000	0.20100	0.30100	0.07000	0.00300	0.00100	0.00002	0.00000	0.57600
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.02000	0.30000	0.30000	0.05000	0.00300	0.00100	0.00004	0.00000	0.65400
Los Angeles, CA		Boron	0.00003	0.00030	0.00040	0.00007	0.00001	0.00000	0.00000	0.00000
	Gypsum Products	0.00601	0.08010	0.10000	0.02000	0.00101	0.00030	0.00001	0.00000	0.20141
	Iron	0.03000	0.40000	0.60000	0.08020	0.00500	0.00100	0.00005	0.00000	1.08620
	Liming Materials	0.03000	0.50000	0.40100	0.08000	0.00701	0.00200	0.00005	0.00000	0.99001
	Micronutrients	0.00100	0.01000	0.01000	0.00400	0.00020	0.00005	0.00000	0.00000	0.02425
	Mn	0.00007	0.00100	0.00200	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
	NPK as N	0.02000	0.20000	0.30000	0.03000	0.00201	0.00070	0.00001	0.00000	0.53271
	NPK for P2O5	0.02000	0.30000	0.40000	0.07000	0.00301	0.00100	0.00002	0.00000	0.77401
	P2O5 - 1	0.03000	0.40000	0.50000	0.08000	0.00600	0.00100	0.00004	0.00000	0.98700
	Potash	0.00040	0.00400	0.00600	0.00100	0.00008	0.00002	0.00000	0.00000	0.01110
	S as Nutrient	0.02000	0.20100	0.30000	0.05010	0.00300	0.00100	0.00003	0.00000	0.55510
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20100	0.30000	0.05000	0.00300	0.00100	0.00003	0.00000	0.55500

99th Percentile Risks from Application of Fertilizer Products
Cadmium (Child)

Climate Region	Product	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	0.00002	0.00030	0.00050	0.00006	0.00001	0.00000	0.00000	0.00000	0.00087
	Gypsum Products	0.00601	0.08000	0.10000	0.02000	0.00100	0.00030	0.00009	0.00000	0.20130
	Iron	0.02000	0.40000	0.50000	0.08010	0.00500	0.00100	0.00030	0.00000	0.98610
	Liming Materials	0.03000	0.40100	0.50000	0.08000	0.00601	0.00200	0.00040	0.00000	0.98901
	Micronutrients	0.00080	0.01000	0.01000	0.00400	0.00020	0.00004	0.00001	0.00000	0.02424
	Mn	0.00005	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00221
	NPK as N	0.01000	0.20000	0.30000	0.02000	0.00200	0.00060	0.00010	0.00000	0.52260
	NPK for P2O5	0.02000	0.20000	0.30000	0.07000	0.00300	0.00100	0.00020	0.00000	0.57400
	P2O5 - 1	0.02000	0.30000	0.40000	0.06000	0.00501	0.00100	0.00030	0.00000	0.76601
	Potash	0.00030	0.00300	0.00600	0.00090	0.00006	0.00001	0.00000	0.00000	0.00997
	S as Nutrient	0.02000	0.20000	0.30000	0.04010	0.00300	0.00080	0.00020	0.00000	0.54390
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.01010	0.20000	0.20000	0.04000	0.00300	0.00070	0.00030	0.00000	0.44370
	Miami, FL	Boron	0.00002	0.00030	0.00040	0.00005	0.00001	0.00000	0.00000	0.00000
Gypsum Products		0.00501	0.07000	0.10000	0.02000	0.00100	0.00030	0.00004	0.00000	0.19130
Iron		0.02000	0.40000	0.50000	0.08010	0.00500	0.00090	0.00020	0.00000	0.96600
Liming Materials		0.03000	0.30100	0.40000	0.07010	0.00601	0.00200	0.00020	0.00000	0.77911
Micronutrients		0.00080	0.01000	0.01000	0.00300	0.00020	0.00004	0.00001	0.00000	0.02324
Mn		0.00005	0.00090	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00211
NPK as N		0.01000	0.20000	0.30000	0.02000	0.00200	0.00050	0.00006	0.00000	0.52250
NPK for P2O5		0.02000	0.20000	0.30000	0.06010	0.00201	0.00080	0.00009	0.00000	0.56291
P2O5 - 1		0.02000	0.30000	0.40000	0.06000	0.00500	0.00100	0.00010	0.00000	0.76600
Potash		0.00030	0.00301	0.00500	0.00080	0.00005	0.00001	0.00000	0.00000	0.00887
S as Nutrient		0.01000	0.20000	0.30000	0.04010	0.00300	0.00070	0.00009	0.00000	0.54380
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.01000	0.20000	0.30000	0.04000	0.00201	0.00080	0.00010	0.00000	0.54281
Minneapolis, MN		Boron	0.00002	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000
	Gypsum Products	0.00601	0.08000	0.10000	0.02000	0.00100	0.00040	0.00005	0.00000	0.20140
	Iron	0.03000	0.40000	0.60000	0.08020	0.00500	0.00100	0.00010	0.00000	1.08620
	Liming Materials	0.03000	0.50000	0.50000	0.08010	0.00701	0.00200	0.00020	0.00000	1.08911
	Micronutrients	0.00090	0.01000	0.01000	0.00400	0.00020	0.00004	0.00000	0.00000	0.02424
	Mn	0.00007	0.00100	0.00200	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
	NPK as N	0.02000	0.20000	0.30100	0.03000	0.00201	0.00060	0.00005	0.00000	0.53361
	NPK for P2O5	0.02000	0.20100	0.40000	0.07010	0.00301	0.00100	0.00007	0.00000	0.67511
	P2O5 - 1	0.03000	0.30100	0.50000	0.08000	0.00600	0.00100	0.00010	0.00000	0.88800
	Potash	0.00040	0.00400	0.00501	0.00100	0.00007	0.00002	0.00000	0.00000	0.01010
	S as Nutrient	0.02000	0.20000	0.30000	0.05000	0.00300	0.00100	0.00010	0.00000	0.55400
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20100	0.30000	0.05000	0.00300	0.00080	0.00010	0.00000	0.55480

99th Percentile Risks from Application of Fertilizer Products
Cadmium (Child)

Climate Region	Product	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
Philadelphia, PA	Boron	0.00002	0.00030	0.00050	0.00006	0.00001	0.00000	0.00000	0.00000	0.00087
	Gypsum Products	0.00502	0.07010	0.10000	0.02000	0.00100	0.00030	0.00006	0.00000	0.19140
	Iron	0.02000	0.40000	0.50100	0.08020	0.00500	0.00100	0.00020	0.00000	0.98720
	Liming Materials	0.03000	0.40100	0.40100	0.08010	0.00601	0.00200	0.00030	0.00000	0.89011
	Micronutrients	0.00080	0.01000	0.01010	0.00400	0.00020	0.00004	0.00001	0.00000	0.02434
	Mn	0.00006	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00221
	NPK as N	0.01010	0.20000	0.30000	0.02010	0.00200	0.00060	0.00008	0.00000	0.52270
	NPK for P2O5	0.02000	0.20000	0.30000	0.07000	0.00300	0.00100	0.00010	0.00000	0.57400
	P2O5 - 1	0.02000	0.30000	0.50000	0.07000	0.00600	0.00100	0.00020	0.00000	0.87700
	Potash	0.00030	0.00400	0.00501	0.00090	0.00006	0.00001	0.00000	0.00000	0.00998
	S as Nutrient	0.02000	0.20000	0.30000	0.05000	0.00300	0.00080	0.00020	0.00000	0.55380
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.01010	0.20000	0.30000	0.04010	0.00300	0.00080	0.00020	0.00000	0.54390
	Phoenix, AZ	Boron	0.00003	0.00030	0.00040	0.00007	0.00001	0.00000	0.00000	0.00000
Gypsum Products		0.00700	0.09000	0.10000	0.02010	0.00200	0.00030	0.00001	0.00000	0.21240
Iron		0.03010	0.40000	0.60000	0.09010	0.00600	0.00200	0.00006	0.00000	1.09810
Liming Materials		0.03010	0.50000	0.50000	0.08010	0.00701	0.00200	0.00006	0.00000	1.08911
Micronutrients		0.00090	0.01000	0.01000	0.00301	0.00020	0.00006	0.00000	0.00000	0.02327
Mn		0.00007	0.00100	0.00200	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
NPK as N		0.02000	0.20000	0.30100	0.03000	0.00300	0.00070	0.00002	0.00000	0.53470
NPK for P2O5		0.02000	0.30000	0.40000	0.08000	0.00301	0.00101	0.00004	0.00000	0.78402
P2O5 - 1		0.03000	0.40000	0.50000	0.08010	0.00600	0.00100	0.00005	0.00000	0.98710
Potash		0.00030	0.00400	0.00600	0.00100	0.00008	0.00002	0.00000	0.00000	0.01110
S as Nutrient		0.02000	0.20100	0.30100	0.05020	0.00300	0.00100	0.00003	0.00000	0.55620
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.02000	0.30000	0.30000	0.05000	0.00300	0.00100	0.00004	0.00000	0.65400
Portland, ME		Boron	0.00002	0.00030	0.00040	0.00006	0.00001	0.00000	0.00000	0.00000
	Gypsum Products	0.00601	0.07010	0.10000	0.02000	0.00100	0.00030	0.00004	0.00000	0.19140
	Iron	0.02000	0.40000	0.50000	0.08010	0.00500	0.00100	0.00010	0.00000	0.98610
	Liming Materials	0.03000	0.40000	0.40100	0.08010	0.00601	0.00200	0.00020	0.00000	0.88911
	Micronutrients	0.00070	0.01000	0.01000	0.00301	0.00020	0.00004	0.00001	0.00000	0.02325
	Mn	0.00005	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00221
	NPK as N	0.01010	0.20000	0.30000	0.02000	0.00200	0.00050	0.00005	0.00000	0.52250
	NPK for P2O5	0.02000	0.20000	0.30000	0.06010	0.00300	0.00100	0.00007	0.00000	0.56410
	P2O5 - 1	0.02000	0.30000	0.40000	0.06000	0.00500	0.00100	0.00010	0.00000	0.76600
	Potash	0.00030	0.00300	0.00501	0.00090	0.00005	0.00001	0.00000	0.00000	0.00897
	S as Nutrient	0.02000	0.20000	0.30000	0.04010	0.00300	0.00080	0.00010	0.00000	0.54390
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.01010	0.20000	0.20100	0.04010	0.00201	0.00070	0.00010	0.00000	0.44381

99th Percentile Risks from Application of Fertilizer Products
Cadmium (Child)

Climate Region	Product	Soil Ingestion	Fruit Ingestion	Vegetable Ingestion	Below-ground Vegetable Ingestion	Beef Ingestion	Milk Ingestion	Fish Ingestion	Direct Inhalation	All Indirect Pathways Combined ¹
Raleigh-Durham, NC	Boron	0.00002	0.00030	0.00040	0.00006	0.00001	0.00000	0.00000	0.00000	0.00077
	Gypsum Products	0.00502	0.07010	0.10000	0.02000	0.00100	0.00030	0.00005	0.00000	0.19140
	Iron	0.03000	0.40000	0.50000	0.08020	0.00500	0.00100	0.00020	0.00000	0.98620
	Liming Materials	0.03000	0.40100	0.40100	0.08000	0.00601	0.00200	0.00030	0.00000	0.89001
	Micronutrients	0.00080	0.01000	0.01000	0.00400	0.00020	0.00004	0.00001	0.00000	0.02424
	Mn	0.00006	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00221
	NPK as N	0.01010	0.20000	0.30000	0.03000	0.00200	0.00050	0.00008	0.00000	0.53250
	NPK for P2O5	0.02000	0.20000	0.30000	0.07000	0.00300	0.00100	0.00010	0.00000	0.57400
	P2O5 - 1	0.02000	0.30000	0.40100	0.06000	0.00500	0.00100	0.00020	0.00000	0.76700
	Potash	0.00030	0.00300	0.00501	0.00090	0.00006	0.00001	0.00000	0.00000	0.00898
	S as Nutrient	0.02000	0.20000	0.30000	0.05000	0.00300	0.00090	0.00010	0.00000	0.55390
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20000	0.30000	0.04000	0.00201	0.00080	0.00020	0.00000	0.54281
	Salem, OR	Boron	0.00002	0.00030	0.00050	0.00006	0.00001	0.00000	0.00000	0.00000
Gypsum Products		0.00601	0.08000	0.10000	0.02000	0.00100	0.00030	0.00003	0.00000	0.20130
Iron		0.03000	0.40000	0.50000	0.08020	0.00500	0.00100	0.00010	0.00000	0.98620
Liming Materials		0.03000	0.50000	0.40100	0.08010	0.00601	0.00200	0.00010	0.00000	0.98911
Micronutrients		0.00080	0.01000	0.01000	0.00400	0.00020	0.00004	0.00000	0.00000	0.02424
Mn		0.00006	0.00100	0.00100	0.00020	0.00001	0.00000	0.00000	0.00000	0.00222
NPK as N		0.01010	0.20000	0.30000	0.03000	0.00200	0.00050	0.00003	0.00000	0.53250
NPK for P2O5		0.02000	0.20000	0.30000	0.07000	0.00300	0.00100	0.00008	0.00000	0.57400
P2O5 - 1		0.02010	0.30000	0.40100	0.07000	0.00500	0.00100	0.00007	0.00000	0.77700
Potash		0.00030	0.00400	0.00500	0.00090	0.00006	0.00001	0.00000	0.00000	0.00997
S as Nutrient		0.02000	0.20000	0.30000	0.05000	0.00300	0.00080	0.00007	0.00000	0.55380
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.02000	0.20000	0.30000	0.05000	0.00300	0.00080	0.00008	0.00000	0.55380
Salt Lake City, UT		Boron	0.00002	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000
	Gypsum Products	0.00601	0.09000	0.10000	0.02010	0.00200	0.00030	0.00001	0.00000	0.21240
	Iron	0.03010	0.40000	0.60000	0.09010	0.00501	0.00200	0.00005	0.00000	1.09711
	Liming Materials	0.04000	0.50000	0.50100	0.09000	0.00800	0.00200	0.00005	0.00000	1.10100
	Micronutrients	0.00100	0.01000	0.01000	0.00400	0.00020	0.00005	0.00000	0.00000	0.02425
	Mn	0.00007	0.00100	0.00200	0.00020	0.00002	0.00000	0.00000	0.00000	0.00322
	NPK as N	0.02000	0.20000	0.30100	0.03000	0.00300	0.00070	0.00002	0.00000	0.53470
	NPK for P2O5	0.02010	0.30000	0.40000	0.08000	0.00400	0.00101	0.00003	0.00000	0.78501
	P2O5 - 1	0.03000	0.40000	0.50000	0.08010	0.00600	0.00100	0.00004	0.00000	0.98710
	Potash	0.00040	0.00400	0.00600	0.00100	0.00009	0.00002	0.00000	0.00000	0.01111
	S as Nutrient	0.02000	0.20100	0.40000	0.07000	0.00300	0.00100	0.00003	0.00000	0.67500
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.30000	0.30000	0.05000	0.00300	0.00100	0.00004	0.00000	0.65400

99th Percentile Risks from Application of Fertilizer Products
Cadmium (Child)

Climate Region	Product	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	0.00002	0.00030	0.00040	0.00006	0.00001	0.00000	0.00000	0.00000	0.00077
	Gypsum Products	0.00601	0.09000	0.10000	0.02000	0.00101	0.00030	0.00001	0.00000	0.21131
	Iron	0.03000	0.40000	0.60000	0.08020	0.00500	0.00100	0.00005	0.00000	1.08620
	Liming Materials	0.03000	0.50000	0.50000	0.08010	0.00800	0.00200	0.00006	0.00000	1.09010
	Micronutrients	0.00100	0.01000	0.01000	0.00400	0.00020	0.00005	0.00000	0.00000	0.02425
	Mn	0.00007	0.00100	0.00200	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
	NPK as N	0.02000	0.20000	0.30000	0.03000	0.00300	0.00070	0.00002	0.00000	0.53370
	NPK for P2O5	0.02010	0.30000	0.40000	0.07000	0.00300	0.00101	0.00003	0.00000	0.77401
	P2O5 - 1	0.03000	0.40000	0.50000	0.08000	0.00600	0.00100	0.00004	0.00000	0.98700
	Potash	0.00030	0.00400	0.00501	0.00100	0.00008	0.00002	0.00000	0.00000	0.01011
	S as Nutrient	0.02000	0.20100	0.30100	0.05010	0.00300	0.00100	0.00004	0.00000	0.55610
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.02000	0.20100	0.30000	0.05000	0.00300	0.00100	0.00005	0.00000	0.55500
	Winnemucca, NV	Boron	0.00002	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000
Gypsum Products		0.00600	0.09000	0.10000	0.02000	0.00200	0.00030	0.00001	0.00000	0.21230
Iron		0.03000	0.40000	0.60000	0.09010	0.00501	0.00200	0.00002	0.00000	1.09711
Liming Materials		0.03010	0.50000	0.40200	0.08010	0.00701	0.00200	0.00002	0.00000	0.99111
Micronutrients		0.00100	0.01000	0.01010	0.00400	0.00020	0.00006	0.00000	0.00000	0.02436
Mn		0.00007	0.00100	0.00200	0.00020	0.00001	0.00000	0.00000	0.00000	0.00321
NPK as N		0.02000	0.20000	0.40000	0.03000	0.00300	0.00060	0.00001	0.00000	0.63360
NPK for P2O5		0.02000	0.30000	0.40000	0.07010	0.00400	0.00101	0.00001	0.00000	0.77511
P2O5 - 1		0.03000	0.40000	0.50000	0.08000	0.00600	0.00100	0.00002	0.00000	0.98700
Potash		0.00030	0.00400	0.00601	0.00100	0.00009	0.00002	0.00000	0.00000	0.01112
S as Nutrient		0.02000	0.20100	0.30000	0.07000	0.00300	0.00100	0.00001	0.00000	0.57500
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.02000	0.20100	0.30000	0.05000	0.00300	0.00100	0.00002	0.00000	0.55500

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.