

US EPA ARCHIVE DOCUMENT

95th 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 <sup>1</sup>
Seattle, WA	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000	0.00033
	Gypsum Products	0.00200	0.04000	0.04000	0.00605	0.00050	0.00010	0.00001	0.00000	0.08665
	Iron	0.00900	0.20000	0.20000	0.02050	0.00100	0.00060	0.00003	0.00000	0.42210
	Liming Materials	0.01000	0.10000	0.20000	0.03000	0.00200	0.00041	0.00004	0.00000	0.33241
	Micronutrients	0.00030	0.00400	0.00500	0.00100	0.00005	0.00002	0.00000	0.00000	0.01007
	Mn	0.00003	0.00040	0.00060	0.00007	0.00001	0.00000	0.00000	0.00000	0.00108
	NPK as N	0.00400	0.05000	0.08000	0.01000	0.00061	0.00020	0.00001	0.00000	0.14081
	NPK for P2O5	0.00600	0.07000	0.09000	0.01000	0.00080	0.00030	0.00001	0.00000	0.17110
	P2O5 - 1	0.00900	0.10000	0.20000	0.02000	0.00200	0.00050	0.00003	0.00000	0.32250
	Potash	0.00010	0.00200	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00433
	S as Nutrient	0.00600	0.05050	0.07000	0.01000	0.00060	0.00020	0.00001	0.00000	0.13130
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.08000	0.09000	0.01000	0.00080	0.00020	0.00002	0.00000	0.18100
	Albuquerque, NM	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00300	0.04000	0.05000	0.00700	0.00050	0.00010	0.00000	0.00000	0.09760
Iron		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00001	0.00000	0.43260
Liming Materials		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00001	0.00000	0.43260
Micronutrients		0.00040	0.00500	0.00600	0.00100	0.00006	0.00002	0.00000	0.00000	0.01208
Mn		0.00003	0.00040	0.00060	0.00009	0.00001	0.00000	0.00000	0.00000	0.00110
NPK as N		0.00500	0.07000	0.09000	0.01000	0.00080	0.00020	0.00000	0.00000	0.17100
NPK for P2O5		0.00700	0.09050	0.10000	0.02000	0.00090	0.00031	0.00001	0.00000	0.21171
P2O5 - 1		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00001	0.00000	0.43260
Potash		0.00020	0.00200	0.00300	0.00040	0.00003	0.00001	0.00000	0.00000	0.00544
S as Nutrient		0.00700	0.07000	0.09000	0.02000	0.00071	0.00030	0.00000	0.00000	0.18101
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00600	0.10000	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.21120
Atlanta, GA		Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00200	0.03000	0.04000	0.00600	0.00041	0.00009	0.00000	0.00000	0.07650
	Iron	0.00900	0.10000	0.20000	0.02000	0.00100	0.00050	0.00002	0.00000	0.32150
	Liming Materials	0.01000	0.10000	0.20000	0.03000	0.00200	0.00040	0.00002	0.00000	0.33240
	Micronutrients	0.00030	0.00400	0.00500	0.00090	0.00004	0.00002	0.00000	0.00000	0.00996
	Mn	0.00003	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000	0.00088
	NPK as N	0.00400	0.05000	0.07000	0.01000	0.00061	0.00020	0.00001	0.00000	0.13081
	NPK for P2O5	0.00600	0.07000	0.09000	0.01000	0.00071	0.00021	0.00001	0.00000	0.17091
	P2O5 - 1	0.00805	0.10000	0.20000	0.02000	0.00200	0.00041	0.00002	0.00000	0.32241
	Potash	0.00010	0.00100	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00333
	S as Nutrient	0.00600	0.05000	0.06050	0.01000	0.00051	0.00020	0.00001	0.00000	0.12121
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.07000	0.08050	0.01000	0.00070	0.00020	0.00001	0.00000	0.16140

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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 <sup>1</sup>
Bismarck, ND	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000	0.00033
	Gypsum Products	0.00300	0.04000	0.05000	0.00700	0.00050	0.00010	0.00001	0.00000	0.09760
	Iron	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
	Liming Materials	0.01000	0.10500	0.20000	0.03000	0.00200	0.00050	0.00002	0.00000	0.33750
	Micronutrients	0.00040	0.00400	0.00600	0.00100	0.00006	0.00002	0.00000	0.00000	0.01108
	Mn	0.00003	0.00040	0.00060	0.00008	0.00001	0.00000	0.00000	0.00000	0.00109
	NPK as N	0.00405	0.06000	0.08050	0.01000	0.00070	0.00020	0.00001	0.00000	0.15140
	NPK for P2O5	0.00700	0.08050	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.19170
	P2O5 - 1	0.01000	0.20000	0.20000	0.02050	0.00200	0.00050	0.00002	0.00000	0.42300
	Potash	0.00010	0.00200	0.00200	0.00040	0.00003	0.00001	0.00000	0.00000	0.00444
	S as Nutrient	0.00700	0.06000	0.08000	0.01000	0.00060	0.00021	0.00001	0.00000	0.15081
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00600	0.09000	0.10000	0.01000	0.00080	0.00030	0.00001	0.00000	0.20110
	Boise, ID	Boron	0.00001	0.00020	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00300	0.04000	0.05000	0.00800	0.00050	0.00010	0.00001	0.00000	0.09860
Iron		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
Liming Materials		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
Micronutrients		0.00040	0.00500	0.00700	0.00100	0.00007	0.00002	0.00000	0.00000	0.01309
Mn		0.00003	0.00040	0.00061	0.00009	0.00001	0.00000	0.00000	0.00000	0.00110
NPK as N		0.00500	0.07000	0.09050	0.01000	0.00080	0.00020	0.00001	0.00000	0.17150
NPK for P2O5		0.00700	0.10000	0.10000	0.02000	0.00091	0.00031	0.00001	0.00000	0.22121
P2O5 - 1		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
Potash		0.00020	0.00200	0.00300	0.00040	0.00003	0.00001	0.00000	0.00000	0.00544
S as Nutrient		0.00700	0.07000	0.09050	0.02000	0.00080	0.00030	0.00001	0.00000	0.18160
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00600	0.10000	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.21120
Boulder, CO		Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00300	0.04000	0.05000	0.00705	0.00050	0.00010	0.00001	0.00000	0.09765
	Iron	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
	Liming Materials	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00003	0.00000	0.43260
	Micronutrients	0.00040	0.00500	0.00600	0.00100	0.00006	0.00002	0.00000	0.00000	0.01208
	Mn	0.00003	0.00040	0.00070	0.00009	0.00001	0.00000	0.00000	0.00000	0.00120
	NPK as N	0.00500	0.07000	0.09050	0.01000	0.00080	0.00020	0.00001	0.00000	0.17150
	NPK for P2O5	0.00700	0.10000	0.10000	0.02000	0.00100	0.00030	0.00001	0.00000	0.22130
	P2O5 - 1	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
	Potash	0.00020	0.00200	0.00300	0.00040	0.00003	0.00001	0.00000	0.00000	0.00544
	S as Nutrient	0.00700	0.07000	0.09000	0.01050	0.00080	0.00030	0.00001	0.00000	0.17160
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00600	0.10000	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.21120

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Cadmium (Child)

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Casper, WY	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000	0.00033
	Gypsum Products	0.00300	0.04000	0.05000	0.00700	0.00050	0.00010	0.00001	0.00000	0.09760
	Iron	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
	Liming Materials	0.01000	0.20000	0.20000	0.03000	0.00200	0.00051	0.00002	0.00000	0.43251
	Micronutrients	0.00030	0.00500	0.00600	0.00100	0.00006	0.00002	0.00000	0.00000	0.01208
	Mn	0.00003	0.00040	0.00060	0.00009	0.00001	0.00000	0.00000	0.00000	0.00110
	NPK as N	0.00405	0.07000	0.09000	0.01000	0.00070	0.00020	0.00001	0.00000	0.17090
	NPK for P2O5	0.00700	0.09000	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.20120
	P2O5 - 1	0.01000	0.20000	0.20000	0.03000	0.00200	0.00051	0.00002	0.00000	0.43251
	Potash	0.00010	0.00200	0.00200	0.00040	0.00003	0.00001	0.00000	0.00000	0.00444
	S as Nutrient	0.00700	0.06000	0.08000	0.01000	0.00070	0.00030	0.00001	0.00000	0.15100
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00600	0.09000	0.10000	0.01000	0.00081	0.00030	0.00001	0.00000	0.20111
	Charleston, SC	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00200	0.03000	0.04000	0.00600	0.00041	0.00010	0.00002	0.00000	0.07651
Iron		0.00900	0.10000	0.20000	0.02000	0.00100	0.00051	0.00006	0.00000	0.32151
Liming Materials		0.01000	0.10000	0.20000	0.03000	0.00200	0.00040	0.00006	0.00000	0.33240
Micronutrients		0.00030	0.00400	0.00500	0.00091	0.00004	0.00002	0.00000	0.00000	0.00997
Mn		0.00003	0.00031	0.00060	0.00007	0.00001	0.00000	0.00000	0.00000	0.00098
NPK as N		0.00400	0.05000	0.07000	0.01000	0.00061	0.00020	0.00002	0.00000	0.13081
NPK for P2O5		0.00600	0.07000	0.08050	0.01000	0.00071	0.00030	0.00003	0.00000	0.16151
P2O5 - 1		0.00800	0.10000	0.20000	0.02000	0.00200	0.00050	0.00006	0.00000	0.32250
Potash		0.00010	0.00100	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00333
S as Nutrient		0.00600	0.05000	0.07000	0.01000	0.00060	0.00020	0.00002	0.00000	0.13080
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00500	0.07050	0.09000	0.01000	0.00070	0.00020	0.00003	0.00000	0.17140
Chicago, IL		Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00300	0.04000	0.04000	0.00700	0.00050	0.00010	0.00001	0.00000	0.08760
	Iron	0.00905	0.10500	0.20000	0.03000	0.00200	0.00060	0.00006	0.00000	0.33760
	Liming Materials	0.01000	0.10500	0.20000	0.03000	0.00200	0.00050	0.00005	0.00000	0.33750
	Micronutrients	0.00030	0.00400	0.00600	0.00100	0.00005	0.00002	0.00000	0.00000	0.01107
	Mn	0.00003	0.00040	0.00060	0.00008	0.00001	0.00000	0.00000	0.00000	0.00109
	NPK as N	0.00400	0.05050	0.08000	0.01000	0.00070	0.00020	0.00002	0.00000	0.14140
	NPK for P2O5	0.00605	0.08000	0.09000	0.01000	0.00080	0.00030	0.00003	0.00000	0.18110
	P2O5 - 1	0.00900	0.10000	0.20000	0.02000	0.00200	0.00050	0.00005	0.00000	0.32250
	Potash	0.00010	0.00200	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00433
	S as Nutrient	0.00600	0.06000	0.07000	0.01000	0.00060	0.00020	0.00002	0.00000	0.14080
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.08000	0.09000	0.01000	0.00080	0.00020	0.00003	0.00000	0.18100

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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 <sup>1</sup>
Cleveland, OH	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000	0.00033
	Gypsum Products	0.00300	0.04000	0.04000	0.00700	0.00050	0.00010	0.00001	0.00000	0.08760
	Iron	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00005	0.00000	0.43260
	Liming Materials	0.01000	0.20000	0.20000	0.03000	0.00200	0.00050	0.00006	0.00000	0.43250
	Micronutrients	0.00030	0.00400	0.00500	0.00100	0.00005	0.00002	0.00000	0.00000	0.01007
	Mn	0.00003	0.00040	0.00060	0.00008	0.00001	0.00000	0.00000	0.00000	0.00109
	NPK as N	0.00400	0.05050	0.08000	0.01000	0.00070	0.00020	0.00002	0.00000	0.14140
	NPK for P2O5	0.00605	0.08000	0.09000	0.01000	0.00080	0.00030	0.00003	0.00000	0.18110
	P2O5 - 1	0.00900	0.10000	0.20000	0.02000	0.00200	0.00050	0.00005	0.00000	0.32250
	Potash	0.00010	0.00200	0.00200	0.00030	0.00003	0.00001	0.00000	0.00000	0.00434
	S as Nutrient	0.00600	0.06000	0.07050	0.01000	0.00060	0.00020	0.00002	0.00000	0.14130
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.08000	0.09000	0.01000	0.00080	0.00020	0.00003	0.00000	0.18100
	Fresno, CA	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00300	0.04000	0.05000	0.00700	0.00050	0.00010	0.00001	0.00000	0.09760
Iron		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
Liming Materials		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
Micronutrients		0.00040	0.00500	0.00600	0.00100	0.00006	0.00002	0.00000	0.00000	0.01208
Mn		0.00003	0.00040	0.00060	0.00009	0.00001	0.00000	0.00000	0.00000	0.00110
NPK as N		0.00500	0.07000	0.09000	0.01000	0.00080	0.00020	0.00001	0.00000	0.17100
NPK for P2O5		0.00700	0.09000	0.10000	0.02000	0.00090	0.00030	0.00001	0.00000	0.21120
P2O5 - 1		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
Potash		0.00010	0.00200	0.00300	0.00040	0.00003	0.00001	0.00000	0.00000	0.00544
S as Nutrient		0.00700	0.07000	0.09050	0.02000	0.00080	0.00030	0.00001	0.00000	0.18160
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00600	0.10000	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.21120
Grand Island, NE		Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00300	0.04000	0.05000	0.00700	0.00050	0.00010	0.00002	0.00000	0.09760
	Iron	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00006	0.00000	0.43260
	Liming Materials	0.01000	0.20000	0.20000	0.03000	0.00200	0.00050	0.00006	0.00000	0.43250
	Micronutrients	0.00040	0.00405	0.00600	0.00100	0.00006	0.00002	0.00000	0.00000	0.01113
	Mn	0.00003	0.00040	0.00060	0.00008	0.00001	0.00000	0.00000	0.00000	0.00109
	NPK as N	0.00405	0.06000	0.09000	0.01000	0.00070	0.00020	0.00002	0.00000	0.16090
	NPK for P2O5	0.00700	0.09000	0.10000	0.01000	0.00090	0.00030	0.00003	0.00000	0.20120
	P2O5 - 1	0.01000	0.20000	0.20000	0.02050	0.00200	0.00050	0.00006	0.00000	0.42300
	Potash	0.00010	0.00200	0.00200	0.00040	0.00003	0.00001	0.00000	0.00000	0.00444
	S as Nutrient	0.00700	0.07000	0.08000	0.01000	0.00070	0.00030	0.00002	0.00000	0.16100
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00600	0.09000	0.10000	0.01000	0.00090	0.00030	0.00003	0.00000	0.20120

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Harrisburg, PA	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000	0.00033
	Gypsum Products	0.00300	0.04000	0.04000	0.00605	0.00050	0.00010	0.00001	0.00000	0.08665
	Iron	0.00900	0.20000	0.20000	0.03000	0.00100	0.00060	0.00006	0.00000	0.43160
	Liming Materials	0.01000	0.10000	0.20000	0.03000	0.00200	0.00041	0.00006	0.00000	0.33241
	Micronutrients	0.00030	0.00400	0.00505	0.00100	0.00005	0.00002	0.00000	0.00000	0.01012
	Mn	0.00003	0.00040	0.00060	0.00007	0.00001	0.00000	0.00000	0.00000	0.00108
	NPK as N	0.00400	0.05000	0.08000	0.01000	0.00070	0.00020	0.00002	0.00000	0.14090
	NPK for P2O5	0.00600	0.07000	0.09000	0.01000	0.00080	0.00030	0.00003	0.00000	0.17110
	P2O5 - 1	0.00900	0.10000	0.20000	0.02000	0.00200	0.00050	0.00005	0.00000	0.32250
	Potash	0.00010	0.00200	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00433
	S as Nutrient	0.00600	0.05050	0.07000	0.01000	0.00060	0.00020	0.00002	0.00000	0.13130
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.08000	0.09000	0.01000	0.00080	0.00020	0.00003	0.00000	0.18100
	Hartford, CT	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00300	0.03000	0.04000	0.00600	0.00050	0.00010	0.00001	0.00000	0.07660
Iron		0.00905	0.10000	0.20000	0.02000	0.00100	0.00060	0.00006	0.00000	0.32160
Liming Materials		0.01000	0.10000	0.20000	0.03000	0.00200	0.00041	0.00006	0.00000	0.33241
Micronutrients		0.00030	0.00400	0.00500	0.00100	0.00004	0.00002	0.00000	0.00000	0.01006
Mn		0.00003	0.00040	0.00051	0.00007	0.00001	0.00000	0.00000	0.00000	0.00098
NPK as N		0.00400	0.05000	0.07000	0.01000	0.00061	0.00020	0.00002	0.00000	0.13081
NPK for P2O5		0.00600	0.07000	0.09000	0.01000	0.00071	0.00030	0.00003	0.00000	0.17101
P2O5 - 1		0.00900	0.10000	0.20000	0.02000	0.00200	0.00050	0.00005	0.00000	0.32250
Potash		0.00010	0.00100	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00333
S as Nutrient		0.00600	0.05000	0.07000	0.01000	0.00060	0.00020	0.00002	0.00000	0.13080
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00500	0.07000	0.09000	0.01000	0.00070	0.00020	0.00003	0.00000	0.17090
Houston, TX		Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00205	0.04000	0.04000	0.00600	0.00050	0.00010	0.00003	0.00000	0.08660
	Iron	0.00900	0.10000	0.20000	0.02000	0.00100	0.00060	0.00010	0.00000	0.32160
	Liming Materials	0.01000	0.10000	0.20000	0.03000	0.00200	0.00041	0.00010	0.00000	0.33241
	Micronutrients	0.00030	0.00400	0.00500	0.00100	0.00004	0.00002	0.00000	0.00000	0.01006
	Mn	0.00003	0.00040	0.00051	0.00007	0.00001	0.00000	0.00000	0.00000	0.00098
	NPK as N	0.00400	0.05000	0.07000	0.01000	0.00061	0.00020	0.00004	0.00000	0.13081
	NPK for P2O5	0.00600	0.07000	0.09000	0.01000	0.00071	0.00030	0.00007	0.00000	0.17101
	P2O5 - 1	0.00900	0.10000	0.20000	0.02000	0.00200	0.00050	0.00010	0.00000	0.32250
	Potash	0.00010	0.00200	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00433
	S as Nutrient	0.00600	0.05000	0.07000	0.01000	0.00060	0.00020	0.00004	0.00000	0.13080
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.08000	0.09000	0.01000	0.00071	0.00020	0.00008	0.00000	0.18091

95th 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 <sup>1</sup>
Huntington, WV	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000	0.00033
	Gypsum Products	0.00300	0.04000	0.04000	0.00605	0.00050	0.00010	0.00001	0.00000	0.08665
	Iron	0.00905	0.10000	0.20000	0.03000	0.00105	0.00060	0.00005	0.00000	0.33165
	Liming Materials	0.01000	0.10000	0.20000	0.03000	0.00200	0.00050	0.00005	0.00000	0.33250
	Micronutrients	0.00030	0.00400	0.00500	0.00100	0.00005	0.00002	0.00000	0.00000	0.01007
	Mn	0.00003	0.00040	0.00060	0.00007	0.00001	0.00000	0.00000	0.00000	0.00108
	NPK as N	0.00400	0.05000	0.08000	0.01000	0.00070	0.00020	0.00002	0.00000	0.14090
	NPK for P2O5	0.00600	0.07000	0.09000	0.01000	0.00080	0.00030	0.00003	0.00000	0.17110
	P2O5 - 1	0.00900	0.10000	0.20000	0.02000	0.00200	0.00050	0.00005	0.00000	0.32250
	Potash	0.00010	0.00200	0.00200	0.00030	0.00003	0.00001	0.00000	0.00000	0.00434
	S as Nutrient	0.00600	0.05000	0.07000	0.01000	0.00060	0.00020	0.00002	0.00000	0.13080
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.08000	0.09050	0.01000	0.00080	0.00020	0.00003	0.00000	0.18150
	Las Vegas, NV	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00300	0.04000	0.05000	0.00700	0.00050	0.00010	0.00000	0.00000	0.09760
Iron		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00001	0.00000	0.43260
Liming Materials		0.01000	0.20000	0.20000	0.03000	0.00200	0.00051	0.00001	0.00000	0.43251
Micronutrients		0.00040	0.00500	0.00600	0.00100	0.00006	0.00002	0.00000	0.00000	0.01208
Mn		0.00003	0.00040	0.00060	0.00009	0.00001	0.00000	0.00000	0.00000	0.00110
NPK as N		0.00500	0.07000	0.09000	0.01000	0.00080	0.00020	0.00000	0.00000	0.17100
NPK for P2O5		0.00605	0.10000	0.10000	0.01050	0.00090	0.00031	0.00001	0.00000	0.21171
P2O5 - 1		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00001	0.00000	0.43260
Potash		0.00010	0.00200	0.00300	0.00040	0.00003	0.00001	0.00000	0.00000	0.00544
S as Nutrient		0.00700	0.07000	0.09000	0.01050	0.00071	0.00030	0.00000	0.00000	0.17151
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00600	0.10000	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.21120
Los Angeles, CA		Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00300	0.04000	0.05000	0.00700	0.00050	0.00010	0.00000	0.00000	0.09760
	Iron	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
	Liming Materials	0.01000	0.20000	0.20000	0.03000	0.00200	0.00050	0.00002	0.00000	0.43250
	Micronutrients	0.00040	0.00500	0.00600	0.00100	0.00006	0.00002	0.00000	0.00000	0.01208
	Mn	0.00003	0.00040	0.00060	0.00008	0.00001	0.00000	0.00000	0.00000	0.00109
	NPK as N	0.00405	0.06050	0.09000	0.01000	0.00070	0.00020	0.00001	0.00000	0.16140
	NPK for P2O5	0.00605	0.09000	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.20120
	P2O5 - 1	0.01000	0.20000	0.20000	0.03000	0.00200	0.00050	0.00001	0.00000	0.43250
	Potash	0.00010	0.00200	0.00200	0.00040	0.00003	0.00001	0.00000	0.00000	0.00444
	S as Nutrient	0.00700	0.06050	0.08050	0.01050	0.00070	0.00030	0.00001	0.00000	0.15250
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00600	0.09000	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.20120

95th 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 <sup>1</sup>
Memphis, TN	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000	0.00033
	Gypsum Products	0.00200	0.03000	0.04000	0.00600	0.00040	0.00009	0.00002	0.00000	0.07649
	Iron	0.00900	0.10000	0.20000	0.02000	0.00100	0.00050	0.00010	0.00000	0.32150
	Liming Materials	0.01000	0.10000	0.20000	0.03000	0.00200	0.00040	0.00010	0.00000	0.33240
	Micronutrients	0.00030	0.00400	0.00500	0.00090	0.00004	0.00001	0.00000	0.00000	0.00995
	Mn	0.00003	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000	0.00088
	NPK as N	0.00400	0.05000	0.07000	0.01000	0.00061	0.00020	0.00003	0.00000	0.13081
	NPK for P2O5	0.00600	0.07000	0.08050	0.01000	0.00070	0.00020	0.00006	0.00000	0.16140
	P2O5 - 1	0.00800	0.10000	0.20000	0.02000	0.00200	0.00040	0.00009	0.00000	0.32240
	Potash	0.00010	0.00105	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00338
	S as Nutrient	0.00505	0.05000	0.06000	0.01000	0.00060	0.00020	0.00004	0.00000	0.12080
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.07050	0.09000	0.01000	0.00070	0.00020	0.00005	0.00000	0.17140
	Miami, FL	Boron	0.00001	0.00010	0.00010	0.00003	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00200	0.03000	0.04000	0.00600	0.00040	0.00010	0.00001	0.00000	0.07650
Iron		0.00900	0.10000	0.20000	0.02000	0.00100	0.00050	0.00004	0.00000	0.32150
Liming Materials		0.01000	0.10000	0.20000	0.02000	0.00200	0.00040	0.00004	0.00000	0.32240
Micronutrients		0.00030	0.00300	0.00500	0.00080	0.00004	0.00001	0.00000	0.00000	0.00885
Mn		0.00002	0.00030	0.00050	0.00006	0.00000	0.00000	0.00000	0.00000	0.00087
NPK as N		0.00300	0.05000	0.07000	0.01000	0.00060	0.00020	0.00001	0.00000	0.13080
NPK for P2O5		0.00500	0.06050	0.07000	0.01000	0.00061	0.00020	0.00002	0.00000	0.14131
P2O5 - 1		0.00800	0.10000	0.20000	0.02000	0.00100	0.00040	0.00005	0.00000	0.32140
Potash		0.00010	0.00100	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00333
S as Nutrient		0.00500	0.05000	0.06000	0.01000	0.00051	0.00020	0.00001	0.00000	0.12071
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00500	0.07000	0.08050	0.01000	0.00061	0.00020	0.00002	0.00000	0.16131
Minneapolis, MN		Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00300	0.04000	0.05000	0.00700	0.00050	0.00010	0.00001	0.00000	0.09760
	Iron	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00005	0.00000	0.43260
	Liming Materials	0.01000	0.10000	0.20000	0.03000	0.00200	0.00050	0.00004	0.00000	0.33250
	Micronutrients	0.00030	0.00400	0.00500	0.00100	0.00006	0.00002	0.00000	0.00000	0.01008
	Mn	0.00003	0.00040	0.00060	0.00008	0.00001	0.00000	0.00000	0.00000	0.00109
	NPK as N	0.00400	0.06000	0.08000	0.01000	0.00070	0.00020	0.00001	0.00000	0.15090
	NPK for P2O5	0.00700	0.08050	0.09050	0.01000	0.00090	0.00030	0.00002	0.00000	0.18220
	P2O5 - 1	0.01000	0.20000	0.20000	0.02000	0.00200	0.00050	0.00004	0.00000	0.42250
	Potash	0.00010	0.00200	0.00200	0.00040	0.00003	0.00001	0.00000	0.00000	0.00444
	S as Nutrient	0.00700	0.06000	0.07050	0.01000	0.00060	0.00021	0.00002	0.00000	0.14131
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00600	0.09000	0.10000	0.01000	0.00080	0.00030	0.00002	0.00000	0.20110



95th 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 <sup>1</sup>
Philadelphia, PA	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000	0.00033
	Gypsum Products	0.00200	0.03050	0.04000	0.00600	0.00050	0.00010	0.00002	0.00000	0.07710
	Iron	0.00900	0.10000	0.20000	0.02050	0.00100	0.00060	0.00007	0.00000	0.32210
	Liming Materials	0.01000	0.10000	0.20000	0.03000	0.00200	0.00050	0.00007	0.00000	0.33250
	Micronutrients	0.00030	0.00400	0.00500	0.00100	0.00004	0.00002	0.00000	0.00000	0.01006
	Mn	0.00003	0.00040	0.00060	0.00007	0.00001	0.00000	0.00000	0.00000	0.00108
	NPK as N	0.00400	0.05000	0.07000	0.01000	0.00061	0.00020	0.00002	0.00000	0.13081
	NPK for P2O5	0.00600	0.07000	0.09000	0.01000	0.00080	0.00030	0.00003	0.00000	0.17110
	P2O5 - 1	0.00900	0.10000	0.20000	0.02000	0.00200	0.00050	0.00006	0.00000	0.32250
	Potash	0.00010	0.00200	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00433
	S as Nutrient	0.00600	0.05000	0.07000	0.01000	0.00060	0.00020	0.00003	0.00000	0.13080
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.08000	0.09000	0.01000	0.00070	0.00020	0.00004	0.00000	0.18090
	Phoenix, AZ	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00300	0.04000	0.05000	0.00705	0.00050	0.00010	0.00000	0.00000	0.09765
Iron		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
Liming Materials		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
Micronutrients		0.00040	0.00500	0.00600	0.00100	0.00006	0.00002	0.00000	0.00000	0.01208
Mn		0.00003	0.00040	0.00060	0.00009	0.00001	0.00000	0.00000	0.00000	0.00110
NPK as N		0.00500	0.07000	0.09000	0.01000	0.00080	0.00020	0.00001	0.00000	0.17100
NPK for P2O5		0.00700	0.09050	0.10000	0.02000	0.00090	0.00031	0.00001	0.00000	0.21171
P2O5 - 1		0.01000	0.20000	0.20000	0.03000	0.00200	0.00050	0.00001	0.00000	0.43250
Potash		0.00010	0.00200	0.00300	0.00040	0.00003	0.00001	0.00000	0.00000	0.00544
S as Nutrient		0.00700	0.07000	0.09050	0.02000	0.00080	0.00030	0.00001	0.00000	0.18160
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00600	0.10000	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.21120
Portland, ME		Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00200	0.03000	0.04000	0.00600	0.00040	0.00009	0.00001	0.00000	0.07649
	Iron	0.00900	0.10000	0.20000	0.02000	0.00100	0.00050	0.00005	0.00000	0.32150
	Liming Materials	0.01000	0.10000	0.20000	0.02050	0.00200	0.00040	0.00005	0.00000	0.32290
	Micronutrients	0.00030	0.00400	0.00500	0.00080	0.00004	0.00002	0.00000	0.00000	0.00986
	Mn	0.00003	0.00030	0.00050	0.00007	0.00001	0.00000	0.00000	0.00000	0.00088
	NPK as N	0.00400	0.05000	0.07000	0.01000	0.00060	0.00020	0.00001	0.00000	0.13080
	NPK for P2O5	0.00600	0.07000	0.08000	0.01000	0.00070	0.00021	0.00002	0.00000	0.16091
	P2O5 - 1	0.00800	0.10000	0.20000	0.02000	0.00200	0.00040	0.00004	0.00000	0.32240
	Potash	0.00010	0.00100	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00333
	S as Nutrient	0.00600	0.05000	0.06000	0.01000	0.00060	0.00020	0.00002	0.00000	0.12080
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.07000	0.09000	0.01000	0.00070	0.00020	0.00002	0.00000	0.17090

95th 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 <sup>1</sup>
Raleigh-Durham, NC	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000	0.00033
	Gypsum Products	0.00300	0.03000	0.04000	0.00600	0.00050	0.00010	0.00002	0.00000	0.07660
	Iron	0.00900	0.10000	0.20000	0.02000	0.00100	0.00060	0.00007	0.00000	0.32160
	Liming Materials	0.01000	0.10000	0.20000	0.03000	0.00200	0.00040	0.00007	0.00000	0.33240
	Micronutrients	0.00030	0.00400	0.00500	0.00100	0.00004	0.00002	0.00000	0.00000	0.01006
	Mn	0.00003	0.00040	0.00060	0.00007	0.00001	0.00000	0.00000	0.00000	0.00108
	NPK as N	0.00400	0.05000	0.07050	0.01000	0.00070	0.00020	0.00002	0.00000	0.13140
	NPK for P2O5	0.00600	0.07000	0.09000	0.01000	0.00080	0.00030	0.00004	0.00000	0.17110
	P2O5 - 1	0.00900	0.10000	0.20000	0.02000	0.00200	0.00050	0.00007	0.00000	0.32250
	Potash	0.00010	0.00200	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00433
	S as Nutrient	0.00600	0.05000	0.07000	0.01000	0.00060	0.00020	0.00002	0.00000	0.13080
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00500	0.08000	0.09000	0.01000	0.00071	0.00020	0.00004	0.00000	0.18091
	Salem, OR	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00300	0.03050	0.04000	0.00600	0.00050	0.00010	0.00001	0.00000	0.07710
Iron		0.00900	0.10000	0.20000	0.03000	0.00100	0.00060	0.00003	0.00000	0.33160
Liming Materials		0.01000	0.10000	0.20000	0.03000	0.00200	0.00040	0.00003	0.00000	0.33240
Micronutrients		0.00030	0.00400	0.00500	0.00100	0.00004	0.00002	0.00000	0.00000	0.01006
Mn		0.00003	0.00040	0.00060	0.00007	0.00001	0.00000	0.00000	0.00000	0.00108
NPK as N		0.00400	0.05000	0.08000	0.01000	0.00070	0.00020	0.00001	0.00000	0.14090
NPK for P2O5		0.00600	0.07000	0.09000	0.01000	0.00071	0.00030	0.00001	0.00000	0.17101
P2O5 - 1		0.00900	0.10000	0.20000	0.02000	0.00200	0.00050	0.00003	0.00000	0.32250
Potash		0.00010	0.00200	0.00200	0.00030	0.00002	0.00001	0.00000	0.00000	0.00433
S as Nutrient		0.00600	0.05000	0.07000	0.01000	0.00060	0.00020	0.00001	0.00000	0.13080
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00500	0.08000	0.09000	0.01000	0.00071	0.00020	0.00001	0.00000	0.18091
Salt Lake City, UT		Boron	0.00001	0.00011	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00300	0.04000	0.05000	0.00800	0.00050	0.00010	0.00000	0.00000	0.09860
	Iron	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00001	0.00000	0.43260
	Liming Materials	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
	Micronutrients	0.00040	0.00500	0.00605	0.00100	0.00006	0.00002	0.00000	0.00000	0.01213
	Mn	0.00003	0.00040	0.00060	0.00009	0.00001	0.00000	0.00000	0.00000	0.00110
	NPK as N	0.00500	0.07000	0.09000	0.01000	0.00080	0.00020	0.00001	0.00000	0.17100
	NPK for P2O5	0.00700	0.10000	0.10000	0.02000	0.00091	0.00030	0.00001	0.00000	0.22121
	P2O5 - 1	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00001	0.00000	0.43260
	Potash	0.00011	0.00200	0.00300	0.00040	0.00003	0.00001	0.00000	0.00000	0.00544
	S as Nutrient	0.00700	0.07000	0.08050	0.02000	0.00080	0.00030	0.00001	0.00000	0.17160
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00600	0.10000	0.10000	0.01000	0.00100	0.00030	0.00001	0.00000	0.21130

95th 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 <sup>1</sup>
San Francisco, CA	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000	0.00033
	Gypsum Products	0.00300	0.04000	0.05000	0.00700	0.00050	0.00010	0.00000	0.00000	0.09760
	Iron	0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00002	0.00000	0.43260
	Liming Materials	0.01000	0.20000	0.20000	0.03000	0.00200	0.00051	0.00002	0.00000	0.43251
	Micronutrients	0.00040	0.00500	0.00600	0.00100	0.00006	0.00002	0.00000	0.00000	0.01208
	Mn	0.00003	0.00040	0.00060	0.00009	0.00001	0.00000	0.00000	0.00000	0.00110
	NPK as N	0.00400	0.06050	0.09050	0.01000	0.00071	0.00020	0.00001	0.00000	0.16191
	NPK for P2O5	0.00605	0.09000	0.10000	0.01000	0.00090	0.00030	0.00001	0.00000	0.20120
	P2O5 - 1	0.01000	0.20000	0.20000	0.02050	0.00200	0.00050	0.00001	0.00000	0.42300
	Potash	0.00010	0.00200	0.00200	0.00040	0.00003	0.00001	0.00000	0.00000	0.00444
	S as Nutrient	0.00700	0.07000	0.08000	0.01000	0.00071	0.00030	0.00001	0.00000	0.16101
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00600	0.09000	0.10000	0.01000	0.00081	0.00030	0.00001	0.00000	0.20111
	Winnemucca, NV	Boron	0.00001	0.00010	0.00020	0.00003	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00300	0.04000	0.05000	0.00700	0.00050	0.00010	0.00000	0.00000	0.09760
Iron		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00001	0.00000	0.43260
Liming Materials		0.01000	0.20000	0.20000	0.03000	0.00200	0.00060	0.00001	0.00000	0.43260
Micronutrients		0.00040	0.00500	0.00605	0.00100	0.00006	0.00002	0.00000	0.00000	0.01213
Mn		0.00003	0.00040	0.00061	0.00009	0.00001	0.00000	0.00000	0.00000	0.00110
NPK as N		0.00500	0.07000	0.09050	0.01000	0.00080	0.00020	0.00000	0.00000	0.17150
NPK for P2O5		0.00605	0.10000	0.10000	0.02000	0.00090	0.00031	0.00000	0.00000	0.22121
P2O5 - 1		0.01000	0.20000	0.20000	0.02050	0.00200	0.00060	0.00001	0.00000	0.42310
Potash		0.00010	0.00200	0.00300	0.00040	0.00003	0.00001	0.00000	0.00000	0.00544
S as Nutrient		0.00700	0.07000	0.08050	0.01000	0.00071	0.00030	0.00000	0.00000	0.16151
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00600	0.10000	0.10000	0.01000	0.00090	0.00030	0.00000	0.00000	0.21120

<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.