

US EPA ARCHIVE DOCUMENT

95th Percentile Risks from Application of Fertilizer Products  
Mercury (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	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00001	0.00000
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NA	0.07000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	0.90000	0.00090	0.00011
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.09050	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.05050	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	0.70000	0.00050	0.00008
	Albuquerque, NM	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR*	0.00001
Gypsum Products		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
Iron		NA	NA	NA	NA	NA	NA	NR	NA	NA
Liming Materials		0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.07000	0.00198
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
NPK as N		0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00090	0.00012
NPK for P2O5		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
P2O5 - 1		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
Potash		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
S as Nutrient		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NR	NA	NA
Zinc		0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008
Atlanta, GA		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.07000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	NR	0.00090	0.00011
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008

95th Percentile Risks from Application of Fertilizer Products  
Mercury (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	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001	0.00000
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.07000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00090	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008
	Boise, ID	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001
Gypsum Products		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
Iron		NA	NA	NA	NA	NA	NA	NR	NA	NA
Liming Materials		0.00030	0.00081	0.00100	0.00006	0.00002	0.00010	NR	0.07000	0.00199
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
NPK as N		0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	NR	0.00100	0.00011
NPK for P2O5		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
P2O5 - 1		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
Potash		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
S as Nutrient		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NR	NA	NA
Zinc		0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008
Boulder, CO		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.08000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00100	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008

95th Percentile Risks from Application of Fertilizer Products  
Mercury (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>
Casper, WY	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001	0.00000
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00009	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00081	0.00100	0.00007	0.00002	0.00010	NR	0.05000	0.00200
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00005	0.00007	0.00000	0.00000	0.00001	NR	0.00070	0.00013
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00040	0.00008
	Charleston, SC	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001
Gypsum Products		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00010	0.00002
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NA	0.07000	0.00198
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00002	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
NPK as N		0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	1.00000	0.00090	0.00011
NPK for P2O5		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00020	0.00001
P2O5 - 1		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00002
Potash		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00002
S as Nutrient		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00020	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	1.00000	0.00050	0.00008
Chicago, IL		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00001
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NA	0.06000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00001	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	0.80000	0.00080	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.08050	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.07000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	0.60000	0.00040	0.00008

95th Percentile Risks from Application of Fertilizer Products  
Mercury (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	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00001	0.00000
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NA	0.06000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00001	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	2.00000	0.00080	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	1.00000	0.00040	0.00008
	Fresno, CA	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002
Gypsum Products		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
Iron		NA	NA	NA	NA	NA	NA	NR	NA	NA
Liming Materials		0.00030	0.00081	0.00100	0.00006	0.00002	0.00010	NR	0.09000	0.00199
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
NPK as N		0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00100	0.00012
NPK for P2O5		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
P2O5 - 1		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
Potash		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
S as Nutrient		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NR	NA	NA
Zinc		0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00060	0.00008
Grand Island, NE		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00009	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00030	0.00081	0.00100	0.00006	0.00002	0.00010	NA	0.05000	0.00199
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00001	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00105	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	1.00000	0.00070	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.09000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	0.90000	0.00040	0.00008

95th Percentile Risks from Application of Fertilizer Products  
Mercury (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>
Harrisburg, PA	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00001	0.00000
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NA	0.07000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	2.00000	0.00090	0.00011
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	1.00000	0.00050	0.00008
	Hartford, CT	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002
Gypsum Products		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
Iron		NA	NA	NA	NA	NA	NA	NR	NA	NA
Liming Materials		0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.08000	0.00198
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
NPK as N		0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00100	0.00012
NPK for P2O5		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
P2O5 - 1		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
Potash		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
S as Nutrient		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NR	NA	NA
Zinc		0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008
Houston, TX		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.08000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	NR	0.00100	0.00011
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008

95th Percentile Risks from Application of Fertilizer Products  
Mercury (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	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05000	0.00002	0.00000
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.40000	0.00020	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NA	0.09000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	2.00000	0.00100	0.00011
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00030	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	2.00000	0.00060	0.00008
	Las Vegas, NV	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001
Gypsum Products		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
Iron		NA	NA	NA	NA	NA	NA	NR	NA	NA
Liming Materials		0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.06000	0.00198
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
NPK as N		0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00080	0.00012
NPK for P2O5		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
P2O5 - 1		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
Potash		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
S as Nutrient		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NR	NA	NA
Zinc		0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00040	0.00008
Los Angeles, CA		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.08000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00100	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00060	0.00008

95th Percentile Risks from Application of Fertilizer Products  
Mercury (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	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001	0.00000
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.08000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00100	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008
	Miami, FL	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001
Gypsum Products		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
Iron		NA	NA	NA	NA	NA	NA	NR	NA	NA
Liming Materials		0.00030	0.00060	0.00100	0.00005	0.00002	0.00010	NR	0.07000	0.00177
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
NPK as N		0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	NR	0.00100	0.00011
NPK for P2O5		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
P2O5 - 1		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
Potash		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
S as Nutrient		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NR	NA	NA
Zinc		0.00001	0.00003	0.00004	0.00000	0.00000	0.00000	NR	0.00050	0.00008
Minneapolis, MN		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.06000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00080	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00040	0.00008



95th Percentile Risks from Application of Fertilizer Products  
Mercury (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	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00001	0.00000
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NA	0.07000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	2.00000	0.00090	0.00012
	NPK for P2O5	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	1.00000	0.00050	0.00008
	Phoenix, AZ	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002
Gypsum Products		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
Iron		NA	NA	NA	NA	NA	NA	NR	NA	NA
Liming Materials		0.00030	0.00080	0.00100	0.00007	0.00002	0.00010	NR	0.09000	0.00199
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
NPK as N		0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00100	0.00012
NPK for P2O5		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
P2O5 - 1		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
Potash		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
S as Nutrient		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NR	NA	NA
Zinc		0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00070	0.00008
Portland, ME		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.08000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00100	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008

95th Percentile Risks from Application of Fertilizer Products  
Mercury (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	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.08000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	NR	0.00100	0.00011
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008
	Salem, OR	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001
Gypsum Products		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
Iron		NA	NA	NA	NA	NA	NA	NR	NA	NA
Liming Materials		0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.08000	0.00198
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
NPK as N		0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	NR	0.00100	0.00011
NPK for P2O5		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
P2O5 - 1		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
Potash		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
S as Nutrient		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NR	NA	NA
Zinc		0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008
Salt Lake City, UT		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.07000	0.00198
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00090	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	S as Nutrient	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00050	0.00008

95th Percentile Risks from Application of Fertilizer Products  
Mercury (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	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001	0.00000
	Gypsum Products	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Liming Materials	0.00030	0.00081	0.00100	0.00006	0.00002	0.00010	NR	0.06000	0.00199
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00001	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
	NPK as N	0.00001	0.00004	0.00007	0.00000	0.00000	0.00001	NR	0.00080	0.00012
	NPK for P2O5	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	P2O5 - 1	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	Potash	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
	S as Nutrient	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NR	NA	NA
	Zinc	0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00040	0.00008
	Winnemucca, NV	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002
Gypsum Products		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00010	0.00002
Iron		NA	NA	NA	NA	NA	NA	NR	NA	NA
Liming Materials		0.00030	0.00080	0.00100	0.00006	0.00002	0.00010	NR	0.08000	0.00198
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00002	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	NR	0.00000	0.00000
NPK as N		0.00001	0.00004	0.00006	0.00000	0.00000	0.00001	NR	0.00100	0.00011
NPK for P2O5		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
P2O5 - 1		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00002
Potash		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	NR	0.00030	0.00002
S as Nutrient		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	NR	0.00020	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NR	NA	NA
Zinc		0.00001	0.00003	0.00004	0.00000	0.00000	0.00001	NR	0.00060	0.00008

<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.

NR- No Results - Based on available results, HQ's of concern are not expected