

US EPA ARCHIVE DOCUMENT

50th 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	0.00090	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00600	0.00006	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.09000	0.00065	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00020	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00020	0.00001
	Albuquerque, NM	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00001
Gypsum Products		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00006	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00070	0.00002
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00000	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00000	0.00000
NPK as N		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00030	0.00001
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00500	0.00002	0.00000
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00000	0.00000
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00003	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00001	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08000	0.00030	0.00001
Atlanta, GA		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00002	0.00001
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00006	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.00200	0.00070	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00008	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060	0.00030	0.00001

50th 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	0.00100	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00900	0.00006	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00070	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00030	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00020	0.00001
	Boise, ID	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001
Gypsum Products		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00006	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00070	0.00002
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00040	0.00000	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000
NPK as N		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00030	0.00001
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00002	0.00000
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00500	0.00003	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00030	0.00001
Boulder, CO		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00001
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00006	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00080	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.09000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00900	0.00003	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07000	0.00030	0.00001

50th 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	0.00200	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00004	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00050	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00040	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00020	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00001	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00500	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00020	0.00001
	Charleston, SC	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001
Gypsum Products		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00006	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00070	0.00002
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00040	0.00000	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000
NPK as N		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00030	0.00001
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00002	0.00000
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00500	0.00003	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00030	0.00001
Chicago, IL		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00001
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00600	0.00005	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.09000	0.00060	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00020	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00001	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00020	0.00001

50th 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	0.00200	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00005	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00060	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00040	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00600	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05000	0.00020	0.00001
	Fresno, CA	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00001
Gypsum Products		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00008	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00090	0.00002
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00070	0.00000	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00000	0.00000
NPK as N		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00040	0.00001
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00002	0.00000
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00000	0.00000
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00900	0.00003	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00001	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07000	0.00030	0.00001
Grand Island, NE		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00001
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00900	0.00004	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00050	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00030	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00006	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05000	0.00020	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00450	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00020	0.00001

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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	0.00200	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00006	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00060	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00045	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00008	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00600	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05000	0.00020	0.00001
	Hartford, CT	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00001
Gypsum Products		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00800	0.00007	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00080	0.00002
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00030	0.00000	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000
NPK as N		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05000	0.00030	0.00001
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00002	0.00000
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00000	0.00000
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00003	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00030	0.00001
Houston, TX		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00001
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00006	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00070	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00900	0.00003	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08000	0.00030	0.00001

50th 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	0.00300	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00008	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00090	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00070	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00040	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00500	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00900	0.00003	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08000	0.00030	0.00001
	Las Vegas, NV	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00600	0.00001
Gypsum Products		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00005	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.60000	0.00060	0.00002
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00030	0.00000	0.00000
NPK as N		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00030	0.00001
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00002	0.00000
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00800	0.00000	0.00000
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00002	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00800	0.00001	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
Los Angeles, CA		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00001
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00007	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00080	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00040	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00900	0.00003	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07000	0.00030	0.00001

50th 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	0.00400	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00006	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00070	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00020	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00500	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00450	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00003	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00500	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00030	0.00001
	Miami, FL	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00001
Gypsum Products		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00500	0.00006	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.08000	0.00070	0.00002
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00020	0.00000	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000
NPK as N		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00030	0.00001
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00002	0.00000
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00000	0.00000
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00003	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00001	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00030	0.00000
Minneapolis, MN		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00050	0.00001
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00005	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.05000	0.00060	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00002	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00070	0.00001	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00060	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00020	0.00001



50th 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	0.00200	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00006	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00065	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00050	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00600	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05000	0.00020	0.00001
	Phoenix, AZ	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00600	0.00001
Gypsum Products		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00008	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.50000	0.00090	0.00002
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00000	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00020	0.00000	0.00000
NPK as N		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00040	0.00001
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00800	0.00002	0.00000
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00600	0.00001	0.00000
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00003	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00700	0.00001	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00030	0.00001
Portland, ME		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00001
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00500	0.00007	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.07000	0.00080	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00020	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00003	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00090	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00030	0.00001

50th 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	0.00300	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00006	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00080	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00003	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08000	0.00030	0.00001
	Salem, OR	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00001
Gypsum Products		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00600	0.00006	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.09500	0.00075	0.00002
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00020	0.00000	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00004	0.00000	0.00000
NPK as N		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00030	0.00001
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00002	0.00000
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00000	0.00000
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00003	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00001	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00030	0.00001
Salt Lake City, UT		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00006	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.20000	0.00070	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00040	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00007	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00600	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00020	0.00001

50th 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	0.00100	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00800	0.00005	0.00000
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.10000	0.00060	0.00002
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00030	0.00000	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00005	0.00000	0.00000
	NPK as N	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05000	0.00030	0.00001
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00002	0.00000
	P2O5 - 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00000	0.00000
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00002	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00001	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00020	0.00001
	Winnemucca, NV	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00300	0.00001
Gypsum Products		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00007	0.00000
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00000	0.00001	0.00001	0.00000	0.00000	0.00000	0.30000	0.00080	0.00002
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080	0.00000	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00000	0.00000
NPK as N		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00040	0.00001
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00500	0.00002	0.00000
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00000	0.00000
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00950	0.00003	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00400	0.00001	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08000	0.00030	0.00001

<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.

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