

US EPA ARCHIVE DOCUMENT

90th 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 ¹	
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	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056	
	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	0.00002	0.00004	0.00000	0.00000	0.00000	0.90000	0.00080	0.00007	
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.09050	0.00010	0.00001	
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00020	0.00001	
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001	
	S as Nutrient	0.00000	0.00000	0.00000	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	0.00002	0.00003	0.00000	0.00000	0.00000	0.70000	0.00040	0.00005	
	Albuquerque, NM	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00001	0.00000
		Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.50000	0.00010	0.00001
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056	
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001	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	0.00003	0.00004	0.00000	0.00000	0.00000	1.00000	0.00080	0.00008	
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001	
P2O5 - 1		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30500	0.00020	0.00001	
Potash		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30500	0.00010	0.00001	
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00040	0.00005	
Atlanta, GA		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00040	0.00001	0.00000
		Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00300	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	0.30000	0.04000	0.00056	
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00020	0.00001	0.00000	
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00002	0.00000	0.00000	
	NPK as N	0.00001	0.00002	0.00004	0.00000	0.00000	0.00000	0.02000	0.00080	0.00007	
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00010	0.00001	
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00200	0.00020	0.00001	
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00200	0.00010	0.00001	
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00100	0.00010	0.00001	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.00001	0.00002	0.00002	0.00000	0.00000	0.00000	0.01000	0.00040	0.00004	

90th 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 ¹
Bismarck, ND	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00080	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10500	0.00020	0.00001
	Potash	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	0.90000	0.00040	0.00005
	Boise, ID	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001
Gypsum Products		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00090	0.00007
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
P2O5 - 1		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
Potash		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
S as Nutrient		0.00000	0.00000	0.00000	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	0.00002	0.00003	0.00000	0.00000	0.00000	0.90000	0.00050	0.00005
Boulder, CO		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00001
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.40500	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00090	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00020	0.00001
	Potash	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00020	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	1.00E.00	0.00050	0.00005

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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 ¹
Casper, WY	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00008	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00021	0.00030	0.00002	0.00001	0.00003	1.00000	0.03000	0.00057
	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00060	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00009	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	Potash	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00009	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	0.90000	0.00030	0.00005
	Charleston, SC	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001
Gypsum Products		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00010	0.00001
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00080	0.00006
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
P2O5 - 1		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00011	0.00001
S as Nutrient		0.00000	0.00000	0.00000	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	0.00002	0.00002	0.00000	0.00000	0.00000	1.00000	0.00040	0.00004
Chicago, IL		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00001
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00009	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.03000	0.00056
	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	0.00002	0.00004	0.00000	0.00000	0.00000	0.80000	0.00070	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08050	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	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	0.00002	0.00002	0.00000	0.00000	0.00000	0.60000	0.00040	0.00005

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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 ¹	
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	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00009	0.00001	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056	
	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00070	0.00007	
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001	
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001	
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001	
	S as Nutrient	0.00000	0.00000	0.00000	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	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00040	0.00005	
	Fresno, CA	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05050	0.00002	0.00000
		Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.40000	0.00010	0.00001
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.05000	0.00056	
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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00100	0.00007	
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001	
P2O5 - 1		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00020	0.00001	
Potash		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20500	0.00020	0.00001	
S as Nutrient		0.00000	0.00000	0.00000	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	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00060	0.00005	
Grand Island, NE		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001	0.00000
		Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00008	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	2.00000	0.03000	0.00056	
	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00060	0.00007	
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00009	0.00001	
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001	
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001	
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.09000	0.00009	0.00001	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	0.90000	0.00030	0.00005	

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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	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00080	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
	Potash	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	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	0.00002	0.00002	0.00000	0.00000	0.00000	1.00000	0.00040	0.00005
	Hartford, CT	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001
Gypsum Products		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
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	0.00200	0.00000	0.00000
NPK as N		0.00001	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00090	0.00007
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
P2O5 - 1		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08000	0.00010	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	0.90000	0.00050	0.00005
Houston, TX		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07000	0.00001
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.50000	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00090	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.30000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.40000	0.00020	0.00001
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.40000	0.00020	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00050	0.00005

90th 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 ¹
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	0.00000	0.00001	0.00000	0.00000	0.00000	0.40000	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.05000	0.00056
	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00100	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00020	0.00001
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.30000	0.00020	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	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	0.00002	0.00002	0.00000	0.00000	0.00000	1.00000	0.00060	0.00004
	Las Vegas, NV	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00001
Gypsum Products		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	1.00000	0.00009	0.00001
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08000	0.00001	0.00000
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00705	0.00000	0.00000
NPK as N		0.00001	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00070	0.00007
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.50000	0.00010	0.00001
P2O5 - 1		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.80000	0.00010	0.00001
Potash		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.70000	0.00010	0.00001
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.50000	0.00010	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00040	0.00005
Los Angeles, CA		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07000	0.00001
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.50000	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.05000	0.00056
	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	0.00400	0.00000	0.00000
	NPK as N	0.00001	0.00002	0.00004	0.00000	0.00000	0.00000	3.00000	0.00090	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.30000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00020	0.00001
	Potash	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00020	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00050	0.00005

90th 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 ¹
Memphis, TN	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07050	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.60000	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	50.00000	0.04000	0.00056
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00001	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00305	0.00000	0.00000
	NPK as N	0.00001	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00090	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.30000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.40000	0.00020	0.00001
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.40000	0.00020	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20500	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00050	0.00005
	Miami, FL	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05000	0.00001
Gypsum Products		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00010	0.00001
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
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	0.00205	0.00000	0.00000
NPK as N		0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00080	0.00005
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
P2O5 - 1		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00010	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00000	0.00002	0.00002	0.00000	0.00000	0.00000	1.00000	0.00040	0.00004
Minneapolis, MN		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01000	0.00001
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00009	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00021	0.00030	0.00002	0.00001	0.00003	1.00000	0.03000	0.00057
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00700	0.00001	0.00000
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00070	0.00000	0.00000
	NPK as N	0.00001	0.00002	0.00004	0.00000	0.00000	0.00000	0.60000	0.00070	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.07000	0.00010	0.00001
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07000	0.00010	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	0.40000	0.00040	0.00005

90th 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 ¹	
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	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00010	0.00001	
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056	
	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00080	0.00007	
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001	
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001	
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001	
	S as Nutrient	0.00000	0.00000	0.00000	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	0.00002	0.00002	0.00000	0.00000	0.00000	1.00000	0.00040	0.00005	
	Phoenix, AZ	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00002	0.00000
		Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	1.00000	0.00010	0.00001
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	
Liming Materials		0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.05000	0.00056	
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07000	0.00002	0.00000	
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00605	0.00000	0.00000	
NPK as N		0.00001	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00100	0.00007	
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.60000	0.00020	0.00001	
P2O5 - 1		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.80000	0.00020	0.00001	
Potash		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.80000	0.00020	0.00001	
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.40000	0.00020	0.00001	
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc		0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00060	0.00005	
Portland, ME		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00001	0.00000
		Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	10.00000	0.04000	0.00056	
	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	0.00090	0.00000	0.00000	
	NPK as N	0.00001	0.00002	0.00004	0.00000	0.00000	0.00000	0.70000	0.00090	0.00007	
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07050	0.00010	0.00001	
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00020	0.00001	
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00020	0.00001	
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00010	0.00001	
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	0.50000	0.00050	0.00005	

90th 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 ¹
Raleigh-Durham, NC	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06000	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.40000	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00090	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.30000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00020	0.00001
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.30000	0.00020	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00002	0.00002	0.00000	0.00000	0.00000	1.00000	0.00050	0.00004
	Salem, OR	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02000	0.00001
Gypsum Products		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	20.00000	0.04000	0.00056
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	0.00090	0.00000	0.00000
NPK as N		0.00001	0.00002	0.00004	0.00000	0.00000	0.00000	0.90000	0.00090	0.00007
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.09000	0.00010	0.00001
P2O5 - 1		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00020	0.00001
Potash		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00020	0.00001
S as Nutrient		0.00000	0.00000	0.00000	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	0.00002	0.00003	0.00000	0.00000	0.00000	0.60000	0.00050	0.00005
Salt Lake City, UT		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.04000	0.00001
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.30000	0.00010	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.04000	0.00056
	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00080	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00020	0.00001
	Potash	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	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	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00040	0.00005

90th 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 ¹
San Francisco, CA	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001	0.00000
	Gypsum Products	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.20000	0.00009	0.00001
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00030	0.00030	0.00002	0.00001	0.00003	1.00000	0.03100	0.00066
	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00070	0.00007
	NPK for P2O5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	P2O5 - 1	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10000	0.00010	0.00001
	Potash	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.10500	0.00010	0.00001
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08000	0.00010	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	0.80000	0.00040	0.00005
	Winnemucca, NV	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07000	0.00001
Gypsum Products		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.50000	0.00010	0.00001
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00010	0.00020	0.00030	0.00002	0.00001	0.00003	1.00000	0.05000	0.00056
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03000	0.00001	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	0.00002	0.00004	0.00000	0.00000	0.00000	1.00000	0.00090	0.00007
NPK for P2O5		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.30000	0.00010	0.00001
P2O5 - 1		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.40000	0.00020	0.00001
Potash		0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.40000	0.00020	0.00001
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.20000	0.00010	0.00001
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00001	0.00002	0.00003	0.00000	0.00000	0.00000	1.00000	0.00050	0.00005

¹ All Indirect Pathways Combined includes Fruit, Vegetable, Below-ground Vegetable, Beef, and Milk Ingestion.
Numbers less than 0.00001 appear as a default of 0.00000.

