

US EPA ARCHIVE DOCUMENT

99th Percentile Risks from Application of Fertilizer Products
Arsenic (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
Seattle, WA	Boron	2.E-06	4.E-07	5.E-07	7.E-07	4.E-06	7.E-07	6.E-11	3.E-08	7.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	7.E-07	3.E-06	5.E-07	7.E-11	2.E-08	5.E-06
	Iron	2.E-05	7.E-06	8.E-06	1.E-05	6.E-05	1.E-05	8.E-10	7.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	2.E-09	2.E-06	3.E-04
	Micronutrients	1.E-07	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	4.E-12	2.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	8.E-09	7.E-08	9.E-09	9.E-13	4.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	5.E-11	2.E-08	4.E-06
	NPK for P2O5	5.E-07	9.E-08	2.E-07	2.E-07	2.E-06	2.E-07	2.E-11	1.E-08	2.E-06
	P2O5 - 1	2.E-07	8.E-08	6.E-08	1.E-07	6.E-07	1.E-07	8.E-12	5.E-09	1.E-06
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	4.E-13	3.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	2.E-12	7.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	7.E-11	3.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	3.E-12	2.E-09	3.E-07
	Albuquerque, NM	Boron	2.E-06	4.E-07	5.E-07	7.E-07	5.E-06	7.E-07	3.E-11	2.E-08
Gypsum Products		1.E-06	3.E-07	3.E-07	9.E-07	3.E-06	5.E-07	3.E-11	1.E-08	5.E-06
Iron		3.E-05	7.E-06	9.E-06	1.E-05	7.E-05	1.E-05	5.E-10	4.E-07	1.E-04
Liming Materials		1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	8.E-10	1.E-06	3.E-04
Micronutrients		1.E-07	2.E-08	3.E-08	5.E-08	2.E-07	4.E-08	2.E-12	1.E-09	4.E-07
Mn		2.E-08	6.E-09	6.E-09	9.E-09	6.E-08	1.E-08	4.E-13	3.E-10	9.E-08
NPK as N		9.E-07	2.E-07	3.E-07	6.E-07	3.E-06	5.E-07	2.E-11	2.E-08	5.E-06
NPK for P2O5		5.E-07	8.E-08	2.E-07	2.E-07	2.E-06	3.E-07	9.E-12	8.E-09	2.E-06
P2O5 - 1		3.E-07	8.E-08	7.E-08	2.E-07	6.E-07	1.E-07	5.E-12	3.E-09	1.E-06
Potash		1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	2.E-13	2.E-10	3.E-08
S as Nutrient		4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	7.E-13	4.E-10	1.E-07
S as Ph		1.E-06	3.E-07	3.E-07	6.E-07	4.E-06	5.E-07	3.E-11	2.E-08	6.E-06
Zinc		7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	2.E-12	1.E-09	3.E-07
Atlanta, GA		Boron	2.E-06	4.E-07	4.E-07	6.E-07	4.E-06	7.E-07	3.E-11	2.E-08
	Gypsum Products	1.E-06	3.E-07	3.E-07	6.E-07	3.E-06	5.E-07	3.E-11	2.E-08	5.E-06
	Iron	2.E-05	6.E-06	8.E-06	1.E-05	6.E-05	1.E-05	3.E-10	5.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	8.E-10	2.E-06	3.E-04
	Micronutrients	8.E-08	2.E-08	3.E-08	4.E-08	2.E-07	3.E-08	2.E-12	1.E-09	3.E-07
	Mn	2.E-08	6.E-09	6.E-09	8.E-09	7.E-08	1.E-08	4.E-13	3.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	2.E-06	4.E-07	2.E-11	2.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	8.E-12	9.E-09	2.E-06
	P2O5 - 1	2.E-07	7.E-08	6.E-08	1.E-07	5.E-07	1.E-07	5.E-12	4.E-09	9.E-07
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	2.E-13	2.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	6.E-13	5.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	4.E-11	2.E-08	5.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	2.E-12	1.E-09	3.E-07

99th Percentile Risks from Application of Fertilizer Products
Arsenic (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
Bismarck, ND	Boron	2.E-06	4.E-07	5.E-07	7.E-07	4.E-06	7.E-07	5.E-11	6.E-08	7.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	8.E-07	3.E-06	5.E-07	5.E-11	5.E-08	5.E-06
	Iron	3.E-05	7.E-06	8.E-06	1.E-05	6.E-05	1.E-05	9.E-10	1.E-06	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	2.E-09	5.E-06	3.E-04
	Micronutrients	1.E-07	2.E-08	3.E-08	5.E-08	2.E-07	4.E-08	3.E-12	4.E-09	4.E-07
	Mn	2.E-08	5.E-09	6.E-09	8.E-09	7.E-08	9.E-09	9.E-13	9.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	4.E-11	5.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	2.E-11	3.E-08	2.E-06
	P2O5 - 1	3.E-07	7.E-08	6.E-08	1.E-07	6.E-07	1.E-07	9.E-12	1.E-08	1.E-06
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	4.E-13	6.E-10	3.E-08
	S as Nutrient	4.E-08	1.E-08	8.E-09	1.E-08	6.E-08	1.E-08	2.E-12	1.E-09	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	5.E-11	5.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	3.E-12	4.E-09	3.E-07
	Boise, ID	Boron	2.E-06	4.E-07	5.E-07	7.E-07	5.E-06	7.E-07	5.E-11	3.E-08
Gypsum Products		1.E-06	3.E-07	3.E-07	9.E-07	3.E-06	5.E-07	5.E-11	2.E-08	5.E-06
Iron		3.E-05	7.E-06	1.E-05	1.E-05	7.E-05	1.E-05	7.E-10	6.E-07	1.E-04
Liming Materials		1.E-04	2.E-05	3.E-05	3.E-05	3.E-04	3.E-05	2.E-09	2.E-06	4.E-04
Micronutrients		9.E-08	2.E-08	3.E-08	5.E-08	3.E-07	4.E-08	3.E-12	2.E-09	4.E-07
Mn		2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	1.E-08	8.E-13	4.E-10	1.E-07
NPK as N		9.E-07	2.E-07	3.E-07	6.E-07	3.E-06	5.E-07	4.E-11	3.E-08	5.E-06
NPK for P2O5		6.E-07	9.E-08	2.E-07	2.E-07	2.E-06	3.E-07	1.E-11	1.E-08	2.E-06
P2O5 - 1		3.E-07	8.E-08	7.E-08	2.E-07	6.E-07	1.E-07	1.E-11	5.E-09	1.E-06
Potash		1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	4.E-13	2.E-10	3.E-08
S as Nutrient		4.E-08	1.E-08	9.E-09	1.E-08	6.E-08	1.E-08	1.E-12	7.E-10	1.E-07
S as Ph		1.E-06	3.E-07	3.E-07	6.E-07	4.E-06	5.E-07	5.E-11	3.E-08	6.E-06
Zinc		7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	4.E-12	2.E-09	3.E-07
Boulder, CO		Boron	2.E-06	4.E-07	5.E-07	7.E-07	5.E-06	7.E-07	5.E-11	2.E-07
	Gypsum Products	1.E-06	3.E-07	3.E-07	9.E-07	3.E-06	5.E-07	6.E-11	2.E-07	5.E-06
	Iron	3.E-05	7.E-06	9.E-06	1.E-05	7.E-05	1.E-05	7.E-10	5.E-06	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	2.E-09	2.E-05	3.E-04
	Micronutrients	1.E-07	2.E-08	3.E-08	5.E-08	2.E-07	4.E-08	3.E-12	2.E-08	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	1.E-08	8.E-13	3.E-09	1.E-07
	NPK as N	9.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	4.E-11	2.E-07	4.E-06
	NPK for P2O5	5.E-07	8.E-08	2.E-07	2.E-07	2.E-06	3.E-07	2.E-11	1.E-07	2.E-06
	P2O5 - 1	3.E-07	8.E-08	7.E-08	2.E-07	6.E-07	1.E-07	8.E-12	4.E-08	1.E-06
	Potash	1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	3.E-13	2.E-09	3.E-08
	S as Nutrient	4.E-08	1.E-08	8.E-09	1.E-08	6.E-08	1.E-08	1.E-12	5.E-09	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	6.E-07	4.E-06	5.E-07	4.E-11	2.E-07	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	3.E-12	1.E-08	3.E-07

99th Percentile Risks from Application of Fertilizer Products
Arsenic (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
Casper, WY	Boron	2.E-06	4.E-07	5.E-07	7.E-07	4.E-06	7.E-07	6.E-11	7.E-08	7.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	8.E-07	3.E-06	5.E-07	6.E-11	6.E-08	5.E-06
	Iron	3.E-05	7.E-06	9.E-06	1.E-05	7.E-05	1.E-05	8.E-10	2.E-06	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	2.E-09	7.E-06	3.E-04
	Micronutrients	9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	3.E-12	6.E-09	4.E-07
	Mn	2.E-08	5.E-09	6.E-09	9.E-09	7.E-08	9.E-09	1.E-12	1.E-09	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	5.E-07	6.E-11	7.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	2.E-07	2.E-07	2.E-06	2.E-07	2.E-11	3.E-08	2.E-06
	P2O5 - 1	3.E-07	7.E-08	6.E-08	1.E-07	6.E-07	1.E-07	9.E-12	1.E-08	1.E-06
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	4.E-13	7.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	2.E-12	2.E-09	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	6.E-11	7.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	4.E-12	5.E-09	3.E-07
Charleston, SC	Boron	2.E-06	4.E-07	4.E-07	7.E-07	4.E-06	7.E-07	2.E-10	1.E-08	6.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	6.E-07	3.E-06	4.E-07	2.E-10	1.E-08	5.E-06
	Iron	2.E-05	6.E-06	8.E-06	1.E-05	6.E-05	1.E-05	3.E-09	3.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	7.E-09	1.E-06	3.E-04
	Micronutrients	8.E-08	2.E-08	3.E-08	4.E-08	2.E-07	3.E-08	9.E-12	9.E-10	3.E-07
	Mn	2.E-08	6.E-09	6.E-09	8.E-09	7.E-08	9.E-09	3.E-12	2.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	1.E-10	1.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	6.E-11	6.E-09	2.E-06
	P2O5 - 1	2.E-07	7.E-08	6.E-08	1.E-07	5.E-07	1.E-07	3.E-11	2.E-09	9.E-07
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	1.E-12	1.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	4.E-12	3.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	1.E-10	1.E-08	5.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	1.E-11	1.E-09	3.E-07
Chicago, IL	Boron	2.E-06	4.E-07	5.E-07	7.E-07	4.E-06	7.E-07	1.E-10	2.E-08	6.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	7.E-07	3.E-06	5.E-07	1.E-10	2.E-08	5.E-06
	Iron	2.E-05	7.E-06	9.E-06	1.E-05	6.E-05	1.E-05	2.E-09	6.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	5.E-09	2.E-06	3.E-04
	Micronutrients	9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	8.E-12	2.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	1.E-08	2.E-12	3.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	1.E-10	2.E-08	4.E-06
	NPK for P2O5	5.E-07	9.E-08	2.E-07	2.E-07	2.E-06	2.E-07	5.E-11	1.E-08	2.E-06
	P2O5 - 1	2.E-07	8.E-08	6.E-08	1.E-07	6.E-07	1.E-07	2.E-11	4.E-09	1.E-06
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	1.E-12	2.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	4.E-12	6.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	1.E-10	2.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	8.E-12	1.E-09	3.E-07

99th Percentile Risks from Application of Fertilizer Products
Arsenic (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
Cleveland, OH	Boron	2.E-06	4.E-07	5.E-07	7.E-07	4.E-06	7.E-07	1.E-10	3.E-08	6.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	7.E-07	3.E-06	5.E-07	1.E-10	3.E-08	5.E-06
	Iron	3.E-05	7.E-06	9.E-06	1.E-05	7.E-05	1.E-05	2.E-09	8.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	5.E-09	3.E-06	3.E-04
	Micronutrients	9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	8.E-12	2.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	1.E-08	3.E-12	5.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	1.E-10	3.E-08	4.E-06
	NPK for P2O5	5.E-07	9.E-08	1.E-07	2.E-07	2.E-06	2.E-07	5.E-11	1.E-08	2.E-06
	P2O5 - 1	2.E-07	8.E-08	7.E-08	1.E-07	6.E-07	1.E-07	2.E-11	6.E-09	1.E-06
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	1.E-12	3.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	4.E-12	8.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	1.E-10	3.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	9.E-12	2.E-09	3.E-07
	Fresno, CA	Boron	2.E-06	4.E-07	5.E-07	7.E-07	5.E-06	7.E-07	5.E-11	2.E-08
Gypsum Products		1.E-06	3.E-07	3.E-07	9.E-07	3.E-06	5.E-07	5.E-11	2.E-08	5.E-06
Iron		3.E-05	7.E-06	9.E-06	1.E-05	7.E-05	1.E-05	6.E-10	5.E-07	1.E-04
Liming Materials		1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	1.E-09	2.E-06	3.E-04
Micronutrients		9.E-08	2.E-08	3.E-08	5.E-08	3.E-07	4.E-08	3.E-12	2.E-09	4.E-07
Mn		2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	9.E-09	7.E-13	3.E-10	1.E-07
NPK as N		9.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	4.E-11	2.E-08	4.E-06
NPK for P2O5		6.E-07	8.E-08	2.E-07	2.E-07	2.E-06	3.E-07	1.E-11	9.E-09	2.E-06
P2O5 - 1		3.E-07	8.E-08	7.E-08	2.E-07	6.E-07	1.E-07	7.E-12	4.E-09	1.E-06
Potash		1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	3.E-13	2.E-10	3.E-08
S as Nutrient		4.E-08	1.E-08	8.E-09	1.E-08	6.E-08	1.E-08	1.E-12	5.E-10	1.E-07
S as Ph		1.E-06	3.E-07	3.E-07	6.E-07	4.E-06	5.E-07	4.E-11	2.E-08	6.E-06
Zinc		7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	3.E-12	1.E-09	3.E-07
Grand Island, NE		Boron	2.E-06	4.E-07	5.E-07	7.E-07	5.E-06	7.E-07	2.E-10	5.E-08
	Gypsum Products	1.E-06	3.E-07	3.E-07	8.E-07	3.E-06	5.E-07	2.E-10	4.E-08	5.E-06
	Iron	3.E-05	7.E-06	9.E-06	1.E-05	6.E-05	1.E-05	2.E-09	1.E-06	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	7.E-09	4.E-06	3.E-04
	Micronutrients	1.E-07	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	9.E-12	4.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	1.E-08	2.E-12	8.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	5.E-07	1.E-10	5.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	2.E-07	2.E-07	2.E-06	2.E-07	4.E-11	2.E-08	2.E-06
	P2O5 - 1	3.E-07	8.E-08	7.E-08	1.E-07	6.E-07	1.E-07	3.E-11	9.E-09	1.E-06
	Potash	1.E-08	2.E-09	4.E-09	6.E-09	2.E-08	4.E-09	1.E-12	5.E-10	3.E-08
	S as Nutrient	4.E-08	1.E-08	8.E-09	1.E-08	6.E-08	1.E-08	5.E-12	1.E-09	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	2.E-10	4.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	1.E-11	4.E-09	3.E-07

99th Percentile Risks from Application of Fertilizer Products
Arsenic (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
Harrisburg, PA	Boron	2.E-06	4.E-07	4.E-07	7.E-07	4.E-06	7.E-07	1.E-10	3.E-08	7.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	7.E-07	3.E-06	5.E-07	1.E-10	2.E-08	5.E-06
	Iron	2.E-05	6.E-06	8.E-06	1.E-05	6.E-05	1.E-05	2.E-09	6.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	6.E-09	2.E-06	3.E-04
	Micronutrients	9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	8.E-12	2.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	9.E-09	2.E-12	4.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	1.E-10	2.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	5.E-11	1.E-08	2.E-06
	P2O5 - 1	2.E-07	7.E-08	6.E-08	1.E-07	6.E-07	1.E-07	2.E-11	5.E-09	1.E-06
	Potash	1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	1.E-12	3.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	4.E-12	6.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	1.E-10	2.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	1.E-11	2.E-09	3.E-07
	Hartford, CT	Boron	2.E-06	4.E-07	5.E-07	7.E-07	4.E-06	7.E-07	1.E-10	2.E-08
Gypsum Products		1.E-06	3.E-07	3.E-07	6.E-07	3.E-06	5.E-07	1.E-10	2.E-08	5.E-06
Iron		2.E-05	7.E-06	8.E-06	1.E-05	6.E-05	1.E-05	2.E-09	5.E-07	1.E-04
Liming Materials		1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	5.E-09	2.E-06	3.E-04
Micronutrients		9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	3.E-08	9.E-12	2.E-09	4.E-07
Mn		2.E-08	6.E-09	6.E-09	8.E-09	7.E-08	9.E-09	2.E-12	3.E-10	1.E-07
NPK as N		8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	1.E-10	2.E-08	4.E-06
NPK for P2O5		5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	4.E-11	1.E-08	2.E-06
P2O5 - 1		2.E-07	7.E-08	6.E-08	1.E-07	5.E-07	1.E-07	2.E-11	4.E-09	9.E-07
Potash		1.E-08	2.E-09	3.E-09	5.E-09	2.E-08	4.E-09	1.E-12	2.E-10	3.E-08
S as Nutrient		4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	4.E-12	5.E-10	1.E-07
S as Ph		1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	1.E-10	2.E-08	6.E-06
Zinc		7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	9.E-12	1.E-09	3.E-07
Houston, TX		Boron	2.E-06	4.E-07	4.E-07	7.E-07	4.E-06	6.E-07	4.E-10	2.E-08
	Gypsum Products	1.E-06	3.E-07	3.E-07	7.E-07	3.E-06	5.E-07	4.E-10	2.E-08	5.E-06
	Iron	2.E-05	7.E-06	8.E-06	1.E-05	6.E-05	1.E-05	5.E-09	4.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	1.E-08	2.E-06	3.E-04
	Micronutrients	9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	3.E-08	2.E-11	1.E-09	3.E-07
	Mn	2.E-08	5.E-09	6.E-09	8.E-09	6.E-08	9.E-09	5.E-12	3.E-10	9.E-08
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	3.E-10	2.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	9.E-11	1.E-08	2.E-06
	P2O5 - 1	2.E-07	7.E-08	6.E-08	1.E-07	6.E-07	1.E-07	6.E-11	4.E-09	1.E-06
	Potash	1.E-08	2.E-09	3.E-09	5.E-09	2.E-08	4.E-09	2.E-12	2.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	5.E-08	1.E-08	7.E-12	5.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	3.E-10	2.E-08	5.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	2.E-11	1.E-09	3.E-07

99th Percentile Risks from Application of Fertilizer Products
Arsenic (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
Huntington, WV	Boron	2.E-06	4.E-07	5.E-07	7.E-07	4.E-06	7.E-07	1.E-10	3.E-08	7.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	7.E-07	3.E-06	5.E-07	1.E-10	2.E-08	5.E-06
	Iron	2.E-05	7.E-06	8.E-06	1.E-05	6.E-05	1.E-05	2.E-09	7.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	7.E-09	3.E-06	3.E-04
	Micronutrients	9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	8.E-12	2.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	9.E-09	2.E-12	5.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	1.E-10	3.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	2.E-07	2.E-07	2.E-06	2.E-07	5.E-11	1.E-08	2.E-06
	P2O5 - 1	2.E-07	8.E-08	6.E-08	1.E-07	6.E-07	1.E-07	2.E-11	5.E-09	1.E-06
	Potash	1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	9.E-13	3.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	4.E-12	6.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	1.E-10	2.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	8.E-12	2.E-09	3.E-07
Las Vegas, NV	Boron	2.E-06	4.E-07	5.E-07	7.E-07	5.E-06	7.E-07	3.E-11	3.E-08	7.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	9.E-07	3.E-06	5.E-07	3.E-11	2.E-08	5.E-06
	Iron	3.E-05	7.E-06	9.E-06	1.E-05	7.E-05	1.E-05	4.E-10	6.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	9.E-10	2.E-06	3.E-04
	Micronutrients	9.E-08	2.E-08	3.E-08	5.E-08	3.E-07	4.E-08	2.E-12	2.E-09	4.E-07
	Mn	2.E-08	5.E-09	6.E-09	9.E-09	7.E-08	9.E-09	5.E-13	4.E-10	1.E-07
	NPK as N	9.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	2.E-11	2.E-08	5.E-06
	NPK for P2O5	6.E-07	8.E-08	1.E-07	2.E-07	2.E-06	3.E-07	8.E-12	1.E-08	2.E-06
	P2O5 - 1	3.E-07	7.E-08	7.E-08	2.E-07	6.E-07	1.E-07	5.E-12	5.E-09	1.E-06
	Potash	1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	2.E-13	3.E-10	3.E-08
	S as Nutrient	4.E-08	1.E-08	8.E-09	1.E-08	6.E-08	1.E-08	6.E-13	7.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	6.E-07	4.E-06	5.E-07	3.E-11	2.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	2.E-12	2.E-09	3.E-07
Los Angeles, CA	Boron	2.E-06	4.E-07	5.E-07	7.E-07	5.E-06	7.E-07	4.E-11	2.E-08	7.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	8.E-07	3.E-06	5.E-07	3.E-11	2.E-08	5.E-06
	Iron	3.E-05	7.E-06	9.E-06	1.E-05	6.E-05	1.E-05	6.E-10	4.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	1.E-09	2.E-06	3.E-04
	Micronutrients	1.E-07	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	3.E-12	1.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	1.E-08	5.E-13	3.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	3.E-11	2.E-08	4.E-06
	NPK for P2O5	6.E-07	8.E-08	2.E-07	2.E-07	2.E-06	2.E-07	1.E-11	9.E-09	2.E-06
	P2O5 - 1	3.E-07	8.E-08	7.E-08	1.E-07	6.E-07	1.E-07	6.E-12	3.E-09	1.E-06
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	3.E-13	2.E-10	3.E-08
	S as Nutrient	4.E-08	1.E-08	8.E-09	1.E-08	6.E-08	1.E-08	9.E-13	5.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	4.E-11	2.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	2.E-12	1.E-09	3.E-07

99th Percentile Risks from Application of Fertilizer Products
Arsenic (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
Memphis, TN	Boron	2.E-06	4.E-07	5.E-07	6.E-07	4.E-06	7.E-07	3.E-10	2.E-08	6.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	6.E-07	3.E-06	4.E-07	3.E-10	2.E-08	5.E-06
	Iron	2.E-05	6.E-06	8.E-06	1.E-05	6.E-05	1.E-05	5.E-09	5.E-07	9.E-05
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	1.E-08	2.E-06	3.E-04
	Micronutrients	8.E-08	2.E-08	3.E-08	4.E-08	2.E-07	3.E-08	1.E-11	2.E-09	3.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	9.E-09	5.E-12	3.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	2.E-10	2.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	9.E-11	8.E-09	2.E-06
	P2O5 - 1	2.E-07	8.E-08	6.E-08	1.E-07	5.E-07	1.E-07	5.E-11	4.E-09	9.E-07
	Potash	1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	2.E-12	2.E-10	3.E-08
	S as Nutrient	3.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	7.E-12	5.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	4.E-07	4.E-06	5.E-07	2.E-10	2.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	2.E-11	1.E-09	3.E-07
	Miami, FL	Boron	2.E-06	4.E-07	4.E-07	6.E-07	4.E-06	7.E-07	1.E-10	1.E-08
Gypsum Products		1.E-06	3.E-07	3.E-07	6.E-07	3.E-06	4.E-07	1.E-10	1.E-08	5.E-06
Iron		2.E-05	6.E-06	7.E-06	9.E-06	6.E-05	1.E-05	2.E-09	3.E-07	9.E-05
Liming Materials		1.E-04	1.E-05	2.E-05	3.E-05	1.E-04	2.E-05	4.E-09	1.E-06	2.E-04
Micronutrients		8.E-08	2.E-08	2.E-08	3.E-08	2.E-07	3.E-08	6.E-12	9.E-10	3.E-07
Mn		2.E-08	6.E-09	6.E-09	8.E-09	7.E-08	9.E-09	2.E-12	2.E-10	9.E-08
NPK as N		7.E-07	2.E-07	3.E-07	6.E-07	2.E-06	4.E-07	1.E-10	1.E-08	4.E-06
NPK for P2O5		5.E-07	8.E-08	1.E-07	2.E-07	1.E-06	2.E-07	3.E-11	6.E-09	2.E-06
P2O5 - 1		2.E-07	7.E-08	6.E-08	1.E-07	6.E-07	1.E-07	3.E-11	2.E-09	9.E-07
Potash		1.E-08	2.E-09	3.E-09	4.E-09	2.E-08	4.E-09	8.E-13	1.E-10	3.E-08
S as Nutrient		3.E-08	8.E-09	8.E-09	1.E-08	5.E-08	1.E-08	3.E-12	3.E-10	9.E-08
S as Ph		1.E-06	2.E-07	3.E-07	5.E-07	4.E-06	5.E-07	1.E-10	1.E-08	5.E-06
Zinc		6.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	9.E-12	9.E-10	3.E-07
Minneapolis, MN		Boron	2.E-06	4.E-07	5.E-07	7.E-07	4.E-06	7.E-07	1.E-10	4.E-08
	Gypsum Products	1.E-06	3.E-07	3.E-07	7.E-07	3.E-06	5.E-07	1.E-10	3.E-08	5.E-06
	Iron	3.E-05	7.E-06	9.E-06	1.E-05	7.E-05	1.E-05	2.E-09	9.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	4.E-09	3.E-06	3.E-04
	Micronutrients	1.E-07	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	7.E-12	3.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	1.E-08	2.E-12	6.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	8.E-11	3.E-08	4.E-06
	NPK for P2O5	6.E-07	9.E-08	2.E-07	2.E-07	2.E-06	2.E-07	3.E-11	2.E-08	2.E-06
	P2O5 - 1	3.E-07	8.E-08	7.E-08	2.E-07	6.E-07	1.E-07	2.E-11	7.E-09	1.E-06
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	9.E-13	4.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	2.E-12	1.E-09	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	1.E-10	4.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	6.E-12	3.E-09	3.E-07

99th Percentile Risks from Application of Fertilizer Products
Arsenic (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
Philadelphia, PA	Boron	2.E-06	4.E-07	5.E-07	7.E-07	4.E-06	7.E-07	2.E-10	2.E-08	7.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	7.E-07	3.E-06	5.E-07	2.E-10	2.E-08	5.E-06
	Iron	2.E-05	7.E-06	8.E-06	1.E-05	6.E-05	1.E-05	3.E-09	5.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	7.E-09	2.E-06	3.E-04
	Micronutrients	9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	3.E-08	1.E-11	2.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	9.E-09	3.E-12	3.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	1.E-10	2.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	6.E-11	1.E-08	2.E-06
	P2O5 - 1	2.E-07	7.E-08	6.E-08	1.E-07	6.E-07	1.E-07	3.E-11	4.E-09	1.E-06
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	1.E-12	2.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	5.E-12	6.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	2.E-10	2.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	1.E-11	2.E-09	3.E-07
	Phoenix, AZ	Boron	2.E-06	4.E-07	5.E-07	7.E-07	5.E-06	7.E-07	4.E-11	2.E-08
Gypsum Products		1.E-06	3.E-07	3.E-07	9.E-07	3.E-06	5.E-07	3.E-11	2.E-08	5.E-06
Iron		2.E-05	7.E-06	9.E-06	1.E-05	7.E-05	1.E-05	5.E-10	5.E-07	1.E-04
Liming Materials		1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	1.E-09	2.E-06	3.E-04
Micronutrients		9.E-08	2.E-08	3.E-08	5.E-08	2.E-07	4.E-08	2.E-12	1.E-09	4.E-07
Mn		2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	9.E-09	6.E-13	3.E-10	1.E-07
NPK as N		9.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	3.E-11	2.E-08	4.E-06
NPK for P2O5		6.E-07	8.E-08	2.E-07	2.E-07	2.E-06	3.E-07	1.E-11	9.E-09	2.E-06
P2O5 - 1		3.E-07	8.E-08	7.E-08	1.E-07	6.E-07	1.E-07	7.E-12	4.E-09	1.E-06
Potash		1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	3.E-13	2.E-10	3.E-08
S as Nutrient		4.E-08	1.E-08	8.E-09	1.E-08	6.E-08	1.E-08	1.E-12	5.E-10	1.E-07
S as Ph		1.E-06	3.E-07	3.E-07	6.E-07	4.E-06	5.E-07	4.E-11	2.E-08	6.E-06
Zinc		7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	3.E-12	1.E-09	3.E-07
Portland, ME		Boron	2.E-06	4.E-07	4.E-07	7.E-07	4.E-06	6.E-07	1.E-10	3.E-08
	Gypsum Products	1.E-06	3.E-07	3.E-07	6.E-07	3.E-06	5.E-07	1.E-10	2.E-08	5.E-06
	Iron	2.E-05	6.E-06	7.E-06	1.E-05	6.E-05	1.E-05	1.E-09	6.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	4.E-09	2.E-06	3.E-04
	Micronutrients	9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	3.E-08	6.E-12	2.E-09	3.E-07
	Mn	2.E-08	6.E-09	6.E-09	8.E-09	7.E-08	9.E-09	2.E-12	4.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	2.E-06	4.E-07	9.E-11	2.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	3.E-11	1.E-08	2.E-06
	P2O5 - 1	2.E-07	7.E-08	6.E-08	1.E-07	5.E-07	1.E-07	2.E-11	5.E-09	9.E-07
	Potash	1.E-08	2.E-09	3.E-09	5.E-09	2.E-08	4.E-09	8.E-13	2.E-10	3.E-08
	S as Nutrient	3.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	3.E-12	6.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	4.E-07	4.E-06	5.E-07	1.E-10	2.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	8.E-12	2.E-09	3.E-07

99th Percentile Risks from Application of Fertilizer Products
Arsenic (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
Raleigh-Durham, NC	Boron	2.E-06	4.E-07	5.E-07	7.E-07	4.E-06	7.E-07	2.E-10	2.E-08	6.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	7.E-07	3.E-06	5.E-07	2.E-10	2.E-08	5.E-06
	Iron	2.E-05	7.E-06	9.E-06	1.E-05	6.E-05	1.E-05	3.E-09	4.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	6.E-09	2.E-06	3.E-04
	Micronutrients	9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	1.E-11	1.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	9.E-09	3.E-12	3.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	1.E-10	1.E-08	4.E-06
	NPK for P2O5	5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	4.E-11	1.E-08	2.E-06
	P2O5 - 1	2.E-07	7.E-08	7.E-08	1.E-07	6.E-07	1.E-07	3.E-11	4.E-09	1.E-06
	Potash	1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	1.E-12	2.E-10	3.E-08
	S as Nutrient	4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	6.E-12	5.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	4.E-07	2.E-10	2.E-08	5.E-06
	Zinc	7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	1.E-11	1.E-09	3.E-07
	Salem, OR	Boron	2.E-06	4.E-07	4.E-07	7.E-07	4.E-06	6.E-07	6.E-11	3.E-08
Gypsum Products		1.E-06	3.E-07	3.E-07	7.E-07	3.E-06	5.E-07	5.E-11	2.E-08	5.E-06
Iron		2.E-05	6.E-06	8.E-06	1.E-05	6.E-05	1.E-05	7.E-10	6.E-07	1.E-04
Liming Materials		1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	2.E-05	2.E-09	2.E-06	3.E-04
Micronutrients		9.E-08	2.E-08	3.E-08	4.E-08	2.E-07	3.E-08	4.E-12	2.E-09	3.E-07
Mn		2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	9.E-09	8.E-13	4.E-10	1.E-07
NPK as N		8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	5.E-11	2.E-08	4.E-06
NPK for P2O5		5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	2.E-11	1.E-08	2.E-06
P2O5 - 1		2.E-07	7.E-08	6.E-08	1.E-07	6.E-07	1.E-07	1.E-11	4.E-09	1.E-06
Potash		1.E-08	2.E-09	4.E-09	5.E-09	2.E-08	4.E-09	4.E-13	3.E-10	3.E-08
S as Nutrient		3.E-08	9.E-09	7.E-09	1.E-08	5.E-08	1.E-08	2.E-12	6.E-10	9.E-08
S as Ph		1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	4.E-07	7.E-11	2.E-08	5.E-06
Zinc		7.E-08	2.E-08	2.E-08	7.E-08	2.E-07	3.E-08	3.E-12	2.E-09	3.E-07
Salt Lake City, UT		Boron	2.E-06	4.E-07	5.E-07	8.E-07	5.E-06	7.E-07	4.E-11	3.E-08
	Gypsum Products	1.E-06	3.E-07	3.E-07	9.E-07	3.E-06	5.E-07	4.E-11	2.E-08	5.E-06
	Iron	2.E-05	7.E-06	1.E-05	1.E-05	7.E-05	1.E-05	5.E-10	6.E-07	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	1.E-09	2.E-06	4.E-04
	Micronutrients	1.E-07	2.E-08	3.E-08	5.E-08	2.E-07	4.E-08	2.E-12	2.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	1.E-08	5.E-13	4.E-10	1.E-07
	NPK as N	9.E-07	2.E-07	3.E-07	6.E-07	3.E-06	5.E-07	3.E-11	2.E-08	5.E-06
	NPK for P2O5	6.E-07	9.E-08	2.E-07	2.E-07	2.E-06	3.E-07	1.E-11	1.E-08	2.E-06
	P2O5 - 1	3.E-07	8.E-08	7.E-08	2.E-07	6.E-07	1.E-07	6.E-12	4.E-09	1.E-06
	Potash	1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	2.E-13	2.E-10	4.E-08
	S as Nutrient	3.E-08	1.E-08	9.E-09	1.E-08	6.E-08	1.E-08	9.E-13	6.E-10	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	6.E-07	4.E-06	5.E-07	3.E-11	2.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	2.E-12	2.E-09	3.E-07

99th Percentile Risks from Application of Fertilizer Products
Arsenic (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
San Francisco, CA	Boron	2.E-06	4.E-07	5.E-07	7.E-07	5.E-06	7.E-07	4.E-11	5.E-08	7.E-06
	Gypsum Products	1.E-06	3.E-07	3.E-07	8.E-07	3.E-06	5.E-07	4.E-11	4.E-08	5.E-06
	Iron	2.E-05	7.E-06	9.E-06	1.E-05	7.E-05	1.E-05	7.E-10	1.E-06	1.E-04
	Liming Materials	1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	1.E-09	4.E-06	3.E-04
	Micronutrients	1.E-07	2.E-08	3.E-08	4.E-08	2.E-07	4.E-08	3.E-12	4.E-09	4.E-07
	Mn	2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	1.E-08	7.E-13	8.E-10	1.E-07
	NPK as N	8.E-07	2.E-07	3.E-07	6.E-07	3.E-06	4.E-07	3.E-11	5.E-08	4.E-06
	NPK for P2O5	6.E-07	8.E-08	2.E-07	2.E-07	2.E-06	2.E-07	1.E-11	2.E-08	2.E-06
	P2O5 - 1	3.E-07	8.E-08	7.E-08	2.E-07	6.E-07	1.E-07	7.E-12	1.E-08	1.E-06
	Potash	1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	3.E-13	5.E-10	3.E-08
	S as Nutrient	3.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	6.E-13	1.E-09	1.E-07
	S as Ph	1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	4.E-11	5.E-08	6.E-06
	Zinc	7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	2.E-12	4.E-09	3.E-07
	Winnemucca, NV	Boron	2.E-06	4.E-07	5.E-07	7.E-07	5.E-06	7.E-07	1.E-11	2.E-08
Gypsum Products		1.E-06	3.E-07	3.E-07	9.E-07	3.E-06	5.E-07	1.E-11	2.E-08	5.E-06
Iron		2.E-05	6.E-06	9.E-06	1.E-05	7.E-05	1.E-05	1.E-10	5.E-07	1.E-04
Liming Materials		1.E-04	2.E-05	3.E-05	3.E-05	2.E-04	3.E-05	4.E-10	2.E-06	3.E-04
Micronutrients		9.E-08	2.E-08	3.E-08	5.E-08	3.E-07	4.E-08	6.E-13	2.E-09	4.E-07
Mn		2.E-08	6.E-09	6.E-09	9.E-09	7.E-08	1.E-08	2.E-13	4.E-10	1.E-07
NPK as N		9.E-07	2.E-07	3.E-07	7.E-07	3.E-06	4.E-07	1.E-11	2.E-08	4.E-06
NPK for P2O5		5.E-07	8.E-08	1.E-07	2.E-07	2.E-06	2.E-07	3.E-12	1.E-08	2.E-06
P2O5 - 1		2.E-07	8.E-08	7.E-08	2.E-07	6.E-07	1.E-07	2.E-12	4.E-09	1.E-06
Potash		1.E-08	3.E-09	4.E-09	5.E-09	2.E-08	4.E-09	7.E-14	2.E-10	3.E-08
S as Nutrient		4.E-08	9.E-09	8.E-09	1.E-08	6.E-08	1.E-08	2.E-13	5.E-10	1.E-07
S as Ph		1.E-06	3.E-07	3.E-07	5.E-07	4.E-06	5.E-07	1.E-11	2.E-08	6.E-06
Zinc		7.E-08	2.E-08	2.E-08	8.E-08	2.E-07	3.E-08	8.E-13	1.E-09	3.E-07

Numbers less than 0.00001 appear as a default of 0.00000.