

US EPA ARCHIVE DOCUMENT

50th Percentile Risks from Application of Fertilizer Products
Chromium (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	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00000	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00010	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
	NPK for P2O5	0.00003	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00008
	P2O5 - 1	0.00010	0.00000	0.00001	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00002	0.00000	0.00000	0.00000	0.00002	0.00003	0.00000	0.00000	0.00005
	Albuquerque, NM	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00008	0.00000	0.00000	0.00000	0.00009	0.00010	0.00000	0.00000	0.00020
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00090	0.00002	0.00004	0.00000	0.00100	0.00100	0.00000	0.00000	0.00206
Micronutrients		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
NPK as N		0.00100	0.00003	0.00005	0.00001	0.00200	0.00200	0.00000	0.00000	0.00409
NPK for P2O5		0.00030	0.00001	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00062
P2O5 - 1		0.00095	0.00002	0.00004	0.00000	0.00100	0.00100	0.00000	0.00000	0.00206
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00020	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
Atlanta, GA		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00007	0.00000	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00010	0.00000	0.00001	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031
	NPK for P2O5	0.00002	0.00000	0.00000	0.00000	0.00002	0.00003	0.00000	0.00000	0.00005
	P2O5 - 1	0.00007	0.00000	0.00000	0.00000	0.00009	0.00010	0.00000	0.00000	0.00020
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004

50th Percentile Risks from Application of Fertilizer Products
Chromium (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	0.00000	0.00000	0.00000
	Gypsum Products	0.00002	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00020	0.00000	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00061
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00030	0.00001	0.00001	0.00000	0.00040	0.00040	0.00000	0.00000	0.00082
	NPK for P2O5	0.00007	0.00000	0.00000	0.00000	0.00007	0.00008	0.00000	0.00000	0.00015
	P2O5 - 1	0.00020	0.00000	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00061
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00004	0.00000	0.00000	0.00000	0.00004	0.00005	0.00000	0.00000	0.00009
	Boise, ID	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00008	0.00000	0.00000	0.00000	0.00009	0.00010	0.00000	0.00000	0.00020
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00090	0.00002	0.00005	0.00000	0.00100	0.00100	0.00000	0.00000	0.00207
Micronutrients		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Mn		0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
NPK as N		0.00100	0.00003	0.00006	0.00001	0.00200	0.00200	0.00000	0.00000	0.00410
NPK for P2O5		0.00030	0.00001	0.00001	0.00000	0.00030	0.00040	0.00000	0.00000	0.00072
P2O5 - 1		0.00100	0.00002	0.00004	0.00000	0.00100	0.00100	0.00000	0.00000	0.00206
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00020	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
Boulder, CO		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00005	0.00000	0.00000	0.00000	0.00006	0.00007	0.00000	0.00000	0.00013
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00060	0.00002	0.00003	0.00000	0.00080	0.00080	0.00000	0.00000	0.00165
	Micronutrients	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	NPK as N	0.00090	0.00002	0.00004	0.00000	0.00100	0.00100	0.00000	0.00000	0.00206
	NPK for P2O5	0.00020	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
	P2O5 - 1	0.00070	0.00002	0.00003	0.00000	0.00080	0.00090	0.00000	0.00000	0.00175
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00010	0.00000	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021

50th Percentile Risks from Application of Fertilizer Products
Chromium (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	0.00000	0.00000	0.00000
	Gypsum Products	0.00003	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00030	0.00001	0.00001	0.00000	0.00040	0.00040	0.00000	0.00000	0.00082
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	0.00050	0.00001	0.00001	0.00000	0.00050	0.00060	0.00000	0.00000	0.00112
	NPK for P2O5	0.00010	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	P2O5 - 1	0.00035	0.00001	0.00001	0.00000	0.00040	0.00040	0.00000	0.00000	0.00082
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00006	0.00000	0.00000	0.00000	0.00006	0.00007	0.00000	0.00000	0.00013
	Charleston, SC	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00008	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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		0.00010	0.00000	0.00001	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031
NPK for P2O5		0.00002	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
P2O5 - 1		0.00008	0.00000	0.00000	0.00000	0.00009	0.00010	0.00000	0.00000	0.00020
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00001	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
Chicago, IL		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00020	0.00000	0.00001	0.00000	0.00020	0.00030	0.00000	0.00000	0.00051
	NPK for P2O5	0.00003	0.00000	0.00000	0.00000	0.00004	0.00005	0.00000	0.00000	0.00009
	P2O5 - 1	0.00010	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00002	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006

50th Percentile Risks from Application of Fertilizer Products
Chromium (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	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00010	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00010	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
	NPK for P2O5	0.00003	0.00000	0.00000	0.00000	0.00004	0.00005	0.00000	0.00000	0.00009
	P2O5 - 1	0.00010	0.00000	0.00001	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00002	0.00000	0.00000	0.00000	0.00002	0.00003	0.00000	0.00000	0.00005
	Fresno, CA	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00008	0.00000	0.00000	0.00000	0.00009	0.00010	0.00000	0.00000	0.00020
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00090	0.00002	0.00004	0.00000	0.00100	0.00100	0.00000	0.00000	0.00206
Micronutrients		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Mn		0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
NPK as N		0.00100	0.00003	0.00006	0.00001	0.00200	0.00200	0.00000	0.00000	0.00410
NPK for P2O5		0.00030	0.00001	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00062
P2O5 - 1		0.00100	0.00002	0.00004	0.00000	0.00100	0.00100	0.00000	0.00000	0.00206
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00020	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
Grand Island, NE		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00002	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00020	0.00001	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00062
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	0.00030	0.00001	0.00001	0.00000	0.00040	0.00040	0.00000	0.00000	0.00082
	NPK for P2O5	0.00007	0.00000	0.00000	0.00000	0.00007	0.00008	0.00000	0.00000	0.00015
	P2O5 - 1	0.00020	0.00000	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00061
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00004	0.00000	0.00000	0.00000	0.00005	0.00005	0.00000	0.00000	0.00010

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Chromium (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
Harrisburg, PA	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00009	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00010	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
	NPK for P2O5	0.00003	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
	P2O5 - 1	0.00009	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00002	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
	Hartford, CT	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00008	0.00000	0.00000	0.00000	0.00010	0.00009	0.00000	0.00000	0.00020
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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		0.00010	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
NPK for P2O5		0.00002	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
P2O5 - 1		0.00008	0.00000	0.00000	0.00000	0.00009	0.00010	0.00000	0.00000	0.00020
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00001	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
Houston, TX		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00009	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00010	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
	NPK for P2O5	0.00003	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
	P2O5 - 1	0.00009	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00002	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004

50th Percentile Risks from Application of Fertilizer Products
Chromium (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	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00009	0.00000	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00010	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
	NPK for P2O5	0.00003	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
	P2O5 - 1	0.00009	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
	Las Vegas, NV	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00008	0.00000	0.00000	0.00000	0.00009	0.00009	0.00000	0.00000	0.00018
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00090	0.00002	0.00003	0.00000	0.00100	0.00090	0.00000	0.00000	0.00195
Micronutrients		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
NPK as N		0.00100	0.00002	0.00004	0.00001	0.00100	0.00200	0.00000	0.00000	0.00307
NPK for P2O5		0.00030	0.00001	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00061
P2O5 - 1		0.00090	0.00002	0.00003	0.00000	0.00100	0.00100	0.00000	0.00000	0.00205
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00020	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
Los Angeles, CA		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00003	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00008
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00040	0.00001	0.00002	0.00000	0.00050	0.00050	0.00000	0.00000	0.00103
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	0.00050	0.00001	0.00003	0.00000	0.00070	0.00070	0.00000	0.00000	0.00144
	NPK for P2O5	0.00010	0.00000	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	P2O5 - 1	0.00040	0.00001	0.00002	0.00000	0.00050	0.00050	0.00000	0.00000	0.00103
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00006	0.00000	0.00000	0.00000	0.00008	0.00009	0.00000	0.00000	0.00017

50th Percentile Risks from Application of Fertilizer Products
Chromium (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	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00006	0.00000	0.00000	0.00000	0.00009	0.00009	0.00000	0.00000	0.00019
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00009	0.00000	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	NPK for P2O5	0.00002	0.00000	0.00000	0.00000	0.00002	0.00003	0.00000	0.00000	0.00005
	P2O5 - 1	0.00006	0.00000	0.00000	0.00000	0.00008	0.00009	0.00000	0.00000	0.00018
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003
	Miami, FL	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00008	0.00000	0.00000	0.00000	0.00009	0.00008	0.00000	0.00000	0.00017
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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		0.00010	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
NPK for P2O5		0.00002	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
P2O5 - 1		0.00008	0.00000	0.00000	0.00000	0.00009	0.00009	0.00000	0.00000	0.00018
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Minneapolis, MN		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00002	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00020	0.00001	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00062
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00030	0.00001	0.00001	0.00000	0.00030	0.00040	0.00000	0.00000	0.00072
	NPK for P2O5	0.00006	0.00000	0.00000	0.00000	0.00007	0.00008	0.00000	0.00000	0.00015
	P2O5 - 1	0.00020	0.00001	0.00001	0.00000	0.00020	0.00030	0.00000	0.00000	0.00052
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00003	0.00000	0.00000	0.00000	0.00004	0.00004	0.00000	0.00000	0.00008

50th Percentile Risks from Application of Fertilizer Products
Chromium (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	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00009	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00010	0.00000	0.00001	0.00000	0.00010	0.00020	0.00000	0.00000	0.00031
	NPK for P2O5	0.00003	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
	P2O5 - 1	0.00009	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
	Phoenix, AZ	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00008	0.00000	0.00000	0.00000	0.00009	0.00009	0.00000	0.00000	0.00018
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00090	0.00002	0.00003	0.00000	0.00100	0.00100	0.00000	0.00000	0.00205
Micronutrients		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00001
NPK as N		0.00100	0.00002	0.00004	0.00001	0.00200	0.00200	0.00000	0.00000	0.00407
NPK for P2O5		0.00030	0.00001	0.00001	0.00000	0.00030	0.00030	0.00000	0.00000	0.00062
P2O5 - 1		0.00090	0.00002	0.00003	0.00000	0.00100	0.00100	0.00000	0.00000	0.00205
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00020	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
Portland, ME		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00006	0.00000	0.00000	0.00000	0.00008	0.00008	0.00000	0.00000	0.00017
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00009	0.00000	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	NPK for P2O5	0.00002	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
	P2O5 - 1	0.00006	0.00000	0.00000	0.00000	0.00008	0.00009	0.00000	0.00000	0.00018
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00000	0.00000	0.00000	0.00001	0.00002	0.00000	0.00000	0.00003

50th Percentile Risks from Application of Fertilizer Products
Chromium (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	0.00000	0.00000	0.00000
	Gypsum Products	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00009	0.00000	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00010	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
	NPK for P2O5	0.00003	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
	P2O5 - 1	0.00009	0.00000	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00001	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
	Salem, OR	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00009	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
Micronutrients		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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		0.00010	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
NPK for P2O5		0.00003	0.00000	0.00000	0.00000	0.00003	0.00003	0.00000	0.00000	0.00006
P2O5 - 1		0.00009	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00002	0.00000	0.00000	0.00000	0.00002	0.00002	0.00000	0.00000	0.00004
Salt Lake City, UT		Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Gypsum Products	0.00009	0.00000	0.00001	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00100	0.00003	0.00005	0.00001	0.00100	0.00100	0.00000	0.00000	0.00209
	Micronutrients	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00002
	Mn	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
	NPK as N	0.00200	0.00004	0.00008	0.00001	0.00200	0.00200	0.00000	0.00000	0.00413
	NPK for P2O5	0.00030	0.00001	0.00002	0.00000	0.00040	0.00040	0.00000	0.00000	0.00083
	P2O5 - 1	0.00100	0.00003	0.00006	0.00001	0.00100	0.00100	0.00000	0.00000	0.00210
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00020	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041

50th Percentile Risks from Application of Fertilizer Products
Chromium (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	0.00000	0.00000	0.00000
	Gypsum Products	0.00004	0.00000	0.00000	0.00000	0.00004	0.00005	0.00000	0.00000	0.00009
	Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Liming Materials	0.00040	0.00001	0.00002	0.00000	0.00050	0.00050	0.00000	0.00000	0.00103
	Micronutrients	0.00000	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000	0.00001
	Mn	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	NPK as N	0.00060	0.00001	0.00002	0.00000	0.00070	0.00080	0.00000	0.00000	0.00153
	NPK for P2O5	0.00010	0.00000	0.00001	0.00000	0.00010	0.00015	0.00000	0.00000	0.00026
	P2O5 - 1	0.00040	0.00001	0.00002	0.00000	0.00050	0.00050	0.00000	0.00000	0.00103
	Potash	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Nutrient	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	S as Ph	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	0.00008	0.00000	0.00000	0.00000	0.00008	0.00009	0.00000	0.00000	0.00017
	Winnemucca, NV	Boron	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Gypsum Products		0.00005	0.00000	0.00000	0.00000	0.00006	0.00007	0.00000	0.00000	0.00013
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA
Liming Materials		0.00070	0.00001	0.00002	0.00000	0.00080	0.00070	0.00000	0.00000	0.00153
Micronutrients		0.00001	0.00000	0.00000	0.00000	0.00001	0.00001	0.00000	0.00000	0.00001
Mn		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001
NPK as N		0.00100	0.00001	0.00002	0.00000	0.00100	0.00100	0.00000	0.00000	0.00203
NPK for P2O5		0.00020	0.00000	0.00001	0.00000	0.00020	0.00020	0.00000	0.00000	0.00041
P2O5 - 1		0.00070	0.00001	0.00002	0.00000	0.00080	0.00080	0.00000	0.00000	0.00163
Potash		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Nutrient		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
S as Ph		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		0.00010	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000	0.00000	0.00021

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.