



2010 Toxics Release Inventory Alaska State Report

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Releases in Alaska

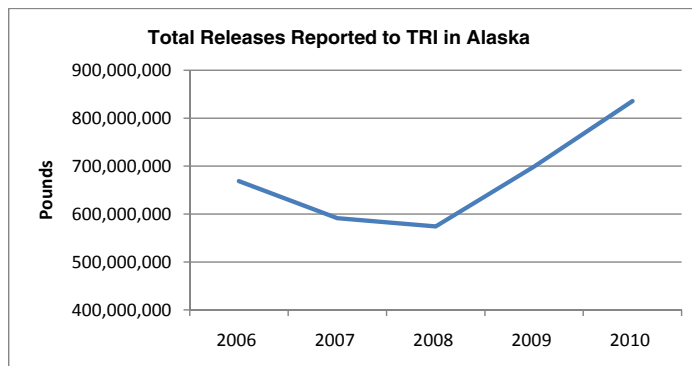
In 2010, 32 facilities reported a total of 835 million pounds of toxic chemical releases, an increase of 19.5%, or 137 million pounds, from 2009. Alaska ranks first in the nation for total releases of TRI chemicals.

What is a Release?

A TRI "release" is defined as the amount of a toxic chemical released on-site (to air, water, underground injection, landfills, and other land disposal), and the amount transferred off-site for disposal. All releases values in this report are listed in pounds released per year.

Total Releases Reported in Alaska from 2006- 2010

Year	No. of Facilities Reporting	Air	Water	Other On-site	Off-Site
2006	32	1,944,805	91,544	666,369,020	290,014
2007	35	1,389,280	100,013	589,558,906	271,745
2008	34	589,848	43,783	573,274,647	234,478
2009	35	525,925	165,647	698,090,039	319,869
2010	32	474,521	190,257	834,810,486	268,744



Top Ten Facilities – All Chemicals

	Facility Name	City	Total Releases
1	RED DOG OPERATIONS	KOTZEBUE	777,395,672
2	HECLA GREENS CREEK MINING CO	JUNEAU	47,185,468
3	POGO MINE	DELTA JUNCTION	7,770,876
4	FORT KNOX MINE	FAIRBANKS	2,443,892
5	US ARMY FORT WAINWRIGHT CANTONMENT	FORT WAINWRIGHT	206,561
6	GOLDEN VALLEY ELECTRIC ASSOC HEALY POWER PLANT	HEALY	150,215
7	DOYON UTILITIES FT WAINWRIGHT	FORT WAINWRIGHT	148,732
8	US DOD USAF EIELSON AFB	EIELSON AFB	110,974
9	COEUR ALASKA INC KENSINGTON GOLD PROJECT	JUNEAU	94,206
10	AURORA ENERGY LLC	FAIRBANKS	63,273

Top Three Industries

	Industry	Total Releases	Percent of Total Releases
1	METAL MINING	834,890,113	99.9%
2	FEDERAL FACILITIES	522,388	0.1%
3	ELECTRIC UTILITIES	213,614	<0.1%

Top Ten Released Chemicals

	Chemicals	Air	Water	Other On-site	Off-site	Total Releases	Percent of Total Releases
1	ZINC COMPOUNDS	36,921	636	482,758,797	80	482,796,434	57.8%
2	LEAD COMPOUNDS	9,144	40	336,466,265	3,074	336,478,523	40.3%
3	ARSENIC COMPOUNDS	772	12	7,500,000	0	7,500,784	0.9%
4	COPPER COMPOUNDS	78	37	2,243,408	0	2,243,523	0.3%
5	BARIUM COMPOUNDS	30,706	169	1,587,485	206,311	1,824,671	0.2%
6	CHROMIUM COMPOUNDS	196	5	1,161,245	0	1,161,446	0.1%
7	MANGANESE COMPOUNDS	31,487	7,830	1,016,825	57,319	1,113,461	0.1%
8	NITRATE COMPOUNDS	0	180,000	788,975	0	968,975	0.1%
9	CYANIDE COMPOUNDS	0	1	700,736	0	700,737	0.1%
10	NICKEL COMPOUNDS	8	61	236,529	0	236,598	<0.1%

Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

PBT chemicals are toxic chemicals that persist in the environment and bioaccumulate in food chains, posing risks to human health and ecosystems. PBT chemicals are a subset of the TRI-listed chemicals that have stricter reporting requirements. In Alaska, 337 million pounds of total releases of PBT chemicals were reported. This is an increase of 130 million pounds, or 63%, from 2009. Lead and mercury compounds topped the list in 2010. The PBT chemicals in the table are listed in descending order of pounds released in 2010.

Total PBT Chemical Releases – Comparison of 2009 to 2010

Chemical	2009 PBT Releases	2010 PBT Releases	Percent Change
LEAD COMPOUNDS	206,940,541	336,478,523	62.6%
MERCURY COMPOUNDS	111,595	126,993	13.8%
LEAD	14,097	34,423	144.2%
POLYCYCLIC AROMATIC COMPOUNDS	137	110	-19.5%
MERCURY	16	33	112.1%
BENZO(G,H,I)PERYLENE	14	11	-18.8%
DIOXIN AND DIOXIN-LIKE COMPOUNDS	0.0015	0.0016	3.6%
Total	207,066,401	336,640,094	62.6%

Top Ten Facilities – PBT Chemicals

	Facility Name	City	Total PBT Releases
1	RED DOG OPERATIONS	KOTZEBUE	319,687,299
2	HECLA GREENS CREEK MINING CO	JUNEAU	15,608,478
3	FORT KNOX MINE	FAIRBANKS	1,105,297
4	COEUR ALASKA INC KENSINGTON GOLD PROJECT	JUNEAU	93,336
5	POGO MINE	DELTA JUNCTION	86,004
6	US ARMY FORT WAINWRIGHT CANTONMENT	FORT WAINWRIGHT	32,343
7	US DOD USAF JOINT BASE ELMENDORF-RICHARDSON	ELEMDORF AFB	17,427
8	US ARMY DONNELLY TRAINING AREA	DELTA JUNCTION	3,738
9	DOYON UTILITIES	FORT WAINWRIGHT	2,018
10	US COAST GUARD BSU KETCHIKAN	KETCHIKAN	1,657