



2010 Toxics Release Inventory Region 10 Report

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Releases in Region 10

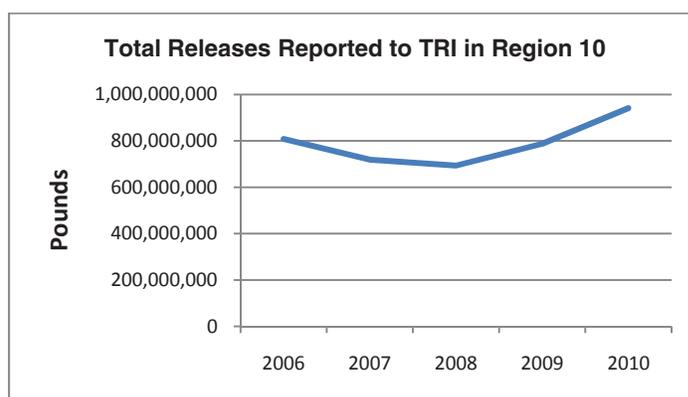
In 2010, 702 facilities in Alaska, Idaho, Oregon and Washington reported a total of 941 million pounds of toxic chemical releases, an increase of 20%, or 154 million pounds, from 2009.

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 Region 10 from 2006 to 2010

Year	No. of Facilities Reporting	Air	Water	Other On-site	Off-Site
2006	812	27,259,206	8,296,487	752,415,092	12,999,998
2007	808	24,601,225	7,289,102	681,216,832	13,479,570
2008	771	20,758,092	6,904,931	660,148,366	11,756,359
2009	731	16,955,974	6,082,018	759,382,489	10,095,688
2010	702	19,027,905	5,770,740	912,267,725	9,189,119



Top 10 Releasing Facilities – All Chemicals

	Facility Name	Location	Total Releases
1	RED DOG OPERATIONS	KOTZEBUE, AK	777,395,672
2	HECLA GREENS CREEK MINING CO	JUNEAU, AK	47,185,468
3	HECLA LTD LUCKY FRIDAY MINE UNIT	MULLAN, ID	19,786,973
4	P4 PRODUCTION LLC	SODA SPRINGS, ID	16,157,407
5	US ECOLOGY IDAHO INC	GRAND VIEW, ID	8,559,037
6	CHEMICAL WASTE MANAGEMENT	ARLINGTON, OR	8,290,413
7	POGO MINE	DELTA JUNCTION, AK	7,770,876
8	US SILVER - IDAHO INC	WALLACE, ID	6,519,554
9	CASCADE STEEL ROLLING MILLS INC	MCMINNVILLE, OR	4,308,484
10	US DOE HANFORD	RICHLAND, WA	4,214,932

Top Ten Industries

	Industry	Total Releases	Percent of Total Releases
1	METAL MINING	864,526,796	92.3%
2	CHEMICAL MANUFACTURING	21,151,447	2.3%
3	HAZARDOUS WASTE / SOLVENT RECOVERY	16,849,838	1.8%
4	PAPER MANUFACTURING	11,555,660	1.2%
5	PRIMARY METAL MANUFACTURING	7,696,682	0.8%
6	FOOD/ BEVERAGES/ TOBACCO	7,598,782	0.8%
7	ELECTRIC UTILITIES	4,279,495	0.5%
8	PETROLEUM AND COAL PRODUCTS MANUFACTURING	1,013,646	0.1%
9	FABRICATED METAL PRODUCT MANUFACTURING	763,402	0.1%
10	TRANSPORTATION EQUIPMENT MANUFACTURING	758,555	0.1%

Top Ten Released Chemicals

	Chemical	Air	Water	Other On-site	Off-site	Total Releases	Percent of Total Releases
1	ZINC COMPOUNDS	158,245	20,202	489,116,840	462,873	489,758,160	52.1%
2	LEAD COMPOUNDS	10,750	332	342,922,342	7,083	342,940,507	36.5%
3	MANGANESE COMPOUNDS	70,478	373,158	20,703,983	856,658	22,004,277	2.3%
4	VANADIUM COMPOUNDS	6,320	1,350	10,834,255	2	10,841,928	1.2%
5	LEAD	2,008	813	8,067,766	330,197	8,400,784	0.9%
6	ARSENIC COMPOUNDS	772	12	7,500,000	0	7,500,784	0.8%
7	NITRATE COMPOUNDS	922	3,853,026	2,907,618	49,308	6,810,874	0.7%
8	METHANOL	5,420,148	323,574	3,688	4,858	5,752,268	0.6%
9	ZINC	486	0	4,839,958	0	4,840,444	0.5%
10	BARIUM COMPOUNDS	31,845	3,937	4,376,213	331,409	4,743,405	0.5%

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 Region 10, 352 million pounds of total releases of PBT chemicals were reported. This is an increase of 132 million pounds, or 60%, from 2009. Lead and lead 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	213,621,973	343,180,287	60.6%
LEAD	6,146,481	8,435,207	37.2%
POLYCYCLIC AROMATIC COMPOUNDS	68,058	240,428	253.3%
POLYCHLORINATED BIPHENYLS	213,448	195,857	-8.2%
MERCURY COMPOUNDS	116,175	131,064	12.8%
BENZO(G,H,I)PERYLENE	5,657	6,318	11.7%
MERCURY	3,788	2,198	-42.0%
TETRABROMOBISPHENOLA	11	2,025	18307.3%
TOXAPHENE	2,145	1,903	-11.3%
CHLORDANE	2,191	1,903	-13.1%
HEXACHLOROBENZENE	2,154	1,900	-11.8%
HEXACHLOROBENZENE	2,142	1,900	-11.3%
ALDRIN	2,140	1,900	-11.2%
HEPTACHLOR	2,142	1,899	-11.3%
METHOXYCHLOR	2,129	1,893	-11.1%
PENDIMETHALIN	23,849	612	-97.4%
DIOXIN AND DIOXIN-LIKE COMPOUNDS	1.9222	1.9362	0.7%
Total	220,214,484	352,207,296	59.9%

Top Ten Facilities – PBT Chemicals

	Facility Name	City	Total PBT Releases
1	RED DOG OPERATIONS	KOTZEBUE, AK	319,687,299
2	HECLA GREENS CREEK MINING CO	JUNEAU, AK	15,608,478
3	US DOE HANFORD SITE	RICHLAND, WA	4,195,680
4	HECLA LTD LUCKY FRIDAY MINE	MULAN, ID	3,834,931
5	CHEMICAL WASTE MANAGEMENT OF THE NORTHWEST INC	ARLINGTON, OR	2,844,955
6	THOMPSON CREEK MINING CO	CLAYTON, ID	2,454,127
7	US ECOLOGY IDAHO INC	GRANDVIEW, ID	1,173,209
8	FORT KNOX MINE	FAIRBANKS, AK	1,105,297
9	US DOE IDAHO NATIONAL LABORATORY SITE	SCOVILL, ID	793,192
10	CASCADE STEEL ROLLING MILLS INC	MCMINNVILLE, OR	226,328