



# Toxics Release Inventory 2008 Nevada Report

U.S. EPA Region 9: California, Arizona, Nevada, Hawaii, the Pacific Islands, and Tribal Nations

## Nevada's Releases

In 2008, 136 facilities reported a total of 202 million pounds of toxic chemical releases. Nevada's total reported on-site and off-site releases decreased 10% (22 million pounds), when compared to 2007 data.

## 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.

### Total Releases for Reporting Years 2006 – 2008

Year	Air	Water	On-Site Land	Underground Injection	Off-Site
2006	1,561,788	191,653	214,170,699	3.5	1,476,577
2007	1,524,167	144	219,527,708	0	2,946,989
2008	1,299,441	158	199,173,533	0	1,872,249

## Releases to the Environment

**Air:** Air releases decreased 15% (225 thousand pounds) since 2007.

**Water:** Water releases decreased 10% (14 pounds) since 2007.

**On-Site Land:** On-site land releases decreased 9% (20 million pounds) since 2007

**Underground Injection:** Underground Injection releases did not change since 2007, none reported.

**Off-Site Transfers:** Total off-site transfers have decreased 36% (1.1 million pounds) since 2007.

## Facilities with Largest Chemical Releases

The top facilities in Nevada for total on-site and off-site releases of chemicals are:

	Facility Name	City	County	Total Releases
1	NEWMONT MINING CORP. COPPER CANYON FACILITY	BATTLE MOUNTAIN	Lander, NV	52,921,128
2	BARRICK GOLDSTRIKE MINES INC.	ELKO	Elko, NV	48,864,451
3	NEWMONT MINING CORP. TWIN CREEKS MINE	GOLCONDA	Humboldt, NV	32,274,695
4	NEWMONT MINING CORP. – CARLIN SOUTH AREA	CARLIN	Eureka, NV	26,833,697
5	ROBINSON NEVADA MINING CO.	RUTH	White Pine, NV	14,113,597
6	CORTEZ GOLD MINES	CRESCENT VALLEY	Lander, NV	11,096,986
7	US ECOLOGY NEVADA INC.	BEATTY	Nye, NV	3,197,462
8	SMOKY VALLEY COMMON OPERATION	ROUND MOUNTAIN	Nye, NV	1,783,621
9	NEWMONT MINING CORP. – CARLIN NORTH AREA	CARLIN	Eureka, NV	1,402,094
10	NEWMONT MIDAS OPERATIONS	MIDAS	Elko, NV	1,246,648

## Top 10 Released Chemicals

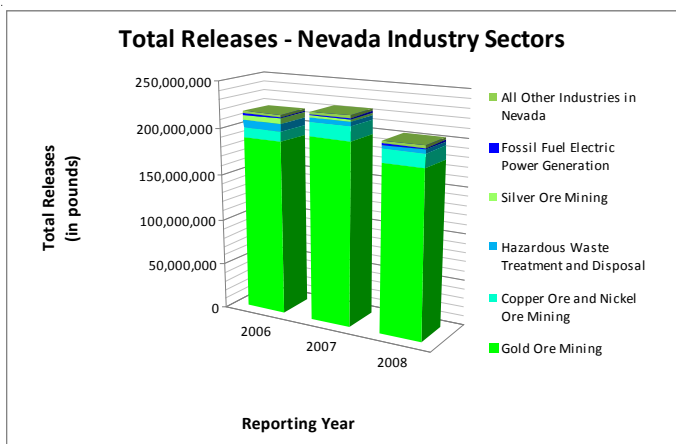
The top released chemicals based on total on-site and off-site releases in Nevada are:

Chemical	Total Releases (pounds)	Percentage of Total Releases
LEAD AND LEAD COMPOUNDS	90,962,979	45
ARSENIC COMPOUNDS	55,766,527	28
ZINC COMPOUNDS	14,025,653	7
MANGANESE AND MANGANESE COMPOUNDS	12,005,531	6
MERCURY AND MERCURY COMPOUNDS	5,342,777	3
COPPER AND COPPER COMPOUNDS	3,608,211	2
ANTIMONY AND ANTIMONY COMPOUNDS	3,222,611	2
NICKEL AND NICKEL COMPOUNDS	3,116,068	2
CHROMIUM AND CHROMIUM COMPOUNDS (EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)	3,010,013	1
NITRATE COMPOUNDS	2,869,183	1

## Industry Breakdown

Gold ore mining and copper ore and nickel ore mining account for 96% of total releases in 2008.

Industry	Total Releases	Percentage of Total Releases
Gold Ore Mining	180,108,338	89%
Copper Ore and Nickel Ore Mining	14,113,597	7%
Hazardous Waste Treatment and Disposal	3,923,536	2%
Fossil Fuel Electric Power Generation	1,554,904	1%



## PBT Chemical Releases

*Releases of Persistent, Bioaccumulative and Toxic (PBT) chemicals are in pounds. Dioxin and dioxin-like compounds data are in grams, not in Toxicity Equivalence (TEQ).*

In Nevada, 96 million pounds of total (on-site and off-site) releases of PBT chemicals were reported. This is an increase of 35 million pounds or 57% since 2007. Lead and lead compounds top the list in 2008. In determining release quantities for metal compounds, facilities only consider the primary metal portion of the compound. For instance, a facility reporting for lead compounds only reports the lead portion of the lead compounds released. The PBT Chemicals in the table are ranked in descending order by 2008 total on-site and off-site releases.

Chemical	Total On-Site and Off-Site Releases		Percent Change
	2007	2008	
LEAD & LEAD COMPOUNDS	55,138,882	90,962,979	65
MERCURY & MERCURY COMPOUNDS	6,109,812	5,342,777	-13
TRIFLURALIN	2,023	3,810	88
POLYCHLORINATED BIPHENYLS	584	350	-40
POLYCYCLIC AROMATIC COMPOUNDS	64	65	1
TOXAPHENE	-	28	100
HEXACHLOROBENZENE	-	2	99
CHLORDANE	3,581	2	-100
BENZO(G,H,I)PERYLENE	1	0	-32
DIOXIN AND DIOXIN-LIKE COMPOUNDS (grams)	6.26	7.44	19

## Facilities with Largest PBT Releases

The top ten facilities in Nevada for total on-site and off-site releases of PBT chemicals are:

	Facility Name	City	County	Total Releases
1	NEWMONT MINING CORP. COPPER CANYON FACILITY	BATTLE MOUNTAIN	Lander, NV	52,570,388
2	ROBINSON NEVADA MINING CO.	RUTH	White Pine, NV	13,831,042
3	CORTEZ GOLD MINES	CRESCENT VALLEY	Lander, NV	9,394,689
4	BARRICK GOLDSTRIKE MINES INC.	ELKO	Elko, NV	6,560,703
5	NEWMONT MINING CORP. - CARLIN SOUTH AREA	CARLIN	Eureka, NV	5,899,347
6	NEWMONT MINING CORP. TWIN CREEKS MINE	GOLCONDA	Humboldt, NV	2,535,232
7	SMOKY VALLEY COMMON OPERATION	ROUND MOUNTAIN	Nye, NV	1,509,185
8	NEWMONT MINING CORP. - CARLIN NORTH AREA	CARLIN	Eureka, NV	1,300,113
9	MARIGOLD MINING CO.	VALMY	Humboldt, NV	875,440
10	BALD MOUNTAIN MINE	ELKO	White Pine, NV	570,883