

Toxics Release Inventory 2008 Hawaii Report

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

Hawaii's Releases

In 2008, 39 facilities reported a total of 3.2 million pounds of toxic chemical releases. Hawaii's total reported on-site and off-site releases increased 5% (150 thousand 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	2,254,027	358,266	174,678	4,743	230,678
2007	2,267,707	446,948	143,011	2,670	156,048
2008	2,281,298	549,838	86,391	3,471	245,556

Releases to the Environment

Air: Air releases increased 1% (14 thousand pounds) since 2007.

Water: Water releases increased 23% (103 thousand pounds) since 2007.

On-site Land: On-site land releases decreased 40% (57 thousand pounds) since 2007.

Underground Injection: Underground injection releases increased 30% (801 pounds) since 2007.

Off-Site Transfers: Total off-site transfers have increased 57% (90 thousand pounds) since 2007.

Facilities with Largest Chemical Releases

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

	Facility Name	City	County	Total Releases
1	HAWAIIAN ELECTRIC CO INC. KAHE GENERATING STATION	KAPOLEI	Honolulu, HI	820,736
2	US NAVY PEARL HARBOR NAVAL COMPLEX	PEARL HARBOR	Honolulu, HI	552,279
3	HAWAIIAN ELECTRIC CO INC WAIAU GENERATING STATION	PEARL CITY	Honolulu, HI	310,763
4	AES HAWAII INC.	KAPOLEI	Honolulu, HI	240,777
5	CHEVRON PRODUCTS CO - HAWAII REFINERY	KAPOLEI	Honolulu, HI	230,534
6	HAWAII ELECTRIC LIGHT CO INC. HILL GENERATING STATION	HILO	Hawaii, HI	210,131
7	MAUI ELECTRIC CO LTD KAHULUI GENERATING STATION	KAHULUI	Maui, HI	210,120
8	HAWAII ELECTRIC LIGHT CO INC PUNA GENERATING STATION	KEAAU	Hawaii, HI	103,005
9	MAUI ELECTRIC CO LTD MAALAEA GENERATING STATION	KIHEI	Maui, HI	98,349
10	TESORO HAWAII REFINERY	KAPOLEI	Honolulu, HI	89,030

Top 10 Released Chemicals

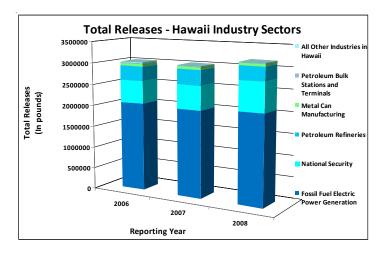
The top released chemicals based on total on-site and off-site releases in Hawaii are:

Chemical	Total Releases (pounds)	Percentage of Total Releases
SULFURIC ACID	1,437,775	45
NITRATE COMPOUNDS	562,504	18
HYDROCHLORIC ACID	320,000	10
BARIUM COMPOUNDS	96,323	3
PROPYLENE	87,900	3
AMMONIA	73,610	2
NICKEL COMPOUNDS	69,603	2
N-BUTYL ALCOHOL	66,890	2
ZINC COMPOUNDS	65,506	2
N-HEXANE	58,279	2

Industry Breakdown

Fossil Fuel Electric Power Generation, National Security and Petroleum Refineries account for 97% of total releases in 2008.

Industry	Total Releases	Percentage of Total Releases
Fossil Fuel Electric Power Generation	2,090,113	66%
National Security	678,864	21%
Petroleum Refineries	319,564	10%



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 Hawaii, 45 thousand pounds of total (on-site and off-site) releases of PBT chemicals were reported. This is a decrease of 40 thousand pounds or 47%. Lead and lead compounds tops 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 Rele	Percent Change	
	2007	2008	Change
LEAD & LEAD COMPOUNDS	84,110	43,674	-48
POLYCYCLIC AROMATIC COMPOUNDS	1,271	1,288	1
MERCURY & MERCURY COMPOUNDS	203	293	44
BENZO(G,H,I)PERYLENE	6	6	-2
PENDIMETHALIN	0	0	20
DIOXIN AND DIOXIN-LIKE COMPOUNDS (grams)	5.08	4.80	-6

Facilities with Largest PBT Releases

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

	Facility Name	City	County	Total Releases
1	US ARMY POHAKULOA TRAINING AREA - RANGE FACILITY	HILO	Hawaii, HI	15,069
2	US MARINE CORPS BASE HAWAII PUULOA TRAINING FACILITY	EWA BEACH	Honolulu, HI	10,000
3	US NAVY PEARL HARBOR NAVAL COMPLEX	PEARL HARBOR	Honolulu, HI	9,972
4	AES HAWAII INC	KAPOLEI	Honolulu, HI	2,881
5	U.S. MARINE CORPS BASE HAWAII	MCBH KANEOHE BAY	Honolulu, HI	2,489
6	HAWAIIAN ELECTRIC CO INC KAHE GENERATING STATION	KAPOLEI	Honolulu, HI	1,335
7	CHEVRON PRODUCTS CO - HAWAII REFINERY	KAPOLEI	Honolulu, HI	949
8	MAUI ELECTRIC CO LTD MAALAEA GENERATING STATION	KIHEI	Maui, HI	899
9	HAWAIIAN ELECTRIC CO INC WAIAU GENERATING STATION	PEARL CITY	Honolulu, HI	562
10	KALAELOA COGENERATION PLANT	KAPOLEI	Honolulu, HI	290