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Office of Information
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1998 Toxics Release Inventory

Public Data Release

State Fact Sheets

Public Access to the Toxics Release Inventory (TRI)

TRI Data Products

Data Product	Point of Access	Contact Information
1998 TRI Public Data Release Report (reference EPA 745-R-00-007 1998 State Fact Sheets Report (reference EPA 745-F-00-003)	U.S. EPA's National Service Center for Environmental Publications (NSCEP)	(800) 490-9198 (513) 489-8190 FAX: (513) 489-8695 order online: http://www.epa.gov/ncepihom
	U.S. EPA Toxics Release Inventory (TRI) Website — 1998 Data Release	http://www.epa.gov/tri/tri98
1998 State Data Files in Dbase format	U.S. EPA Toxics Release Inventory (TRI) Website	http://www.epa.gov/tri/tri98
Chemicals in the Environment (reference EPA 749-R-97-001B)	NSCEP	(800) 490-9198 (513) 489-8190 FAX: (513) 489-8695 order online: http://www.epa.gov/ncepihom

TRI Online Access

Online Provider of TRI Data	Internet Access Address
TRI Explorer provides fast and easy access to the TRI data via U.S. EPA's latest TRI tool	http://www.epa.gov/triexplorer/
U.S. EPA's TRI Program Homepage and 1998 data release page	http://www.epa.gov/tri/ http://www.epa.gov/tri/tri98/
U.S. EPA Envirofacts provides access to TRI data via U.S. EPA's Envirofacts Data Warehouse Query Engine	http://www.epa.gov/enviro/html/toxic_releases.html
Right-to-Know Network, operated by two nonprofit organizations (OMB Watch and the Center for Public Data Access), provides free access to TRI data	http://www.rtknet.org/trisearch.html
TOXNET®, the National Library of Medicine's (NLM) Toxicology Data Network, provides free access to TRI data	http://toxnet.nlm.nih.gov/

1998 Toxics Release Inventory State Fact Sheets

U.S. Environmental Protection Agency

Office of Information Analysis and Access (2844)

Washington, D.C. 20460

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❖ Introduction ❖

The fact sheets in this document summarize the basic 1998 Toxics Release Inventory (TRI) data for each state. This document serves as a companion volume to EPA's 1998 Toxics Release Inventory Public Data Release (EPA 745-R-00-007), a more detailed examination of TRI data for 1998 and previous years.

The TRI is a publicly available database containing information about releases and other waste management of toxic chemicals by reporting facilities. The TRI was established by section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986. EPCRA was passed to promote planning for chemical emergencies and to provide information to the public about the presence and release of toxic and hazardous chemicals in their communities. Following passage of the Pollution Prevention Act of 1990, the TRI was expanded to include reporting of additional waste management and pollution prevention activities.

Facilities in the manufacturing sector (Standard Industrial Classification codes 20 through 39) have been required to report to TRI since its inception. Beginning with reporting year 1994, federal facilities have also been required to report to TRI. 1998 data reflect the first year of reporting by seven additional industries:

- metal mining (SIC code 10, except 1011, 1081, and 1094),
- coal mining (SIC code 12, except 1241),
- electrical utilities that combust coal and/or oil (SIC codes 4911, 4931, 4939, and 4953),
- RCRA subtitle C hazardous waste treatment and disposal facilities (in SIC code 4953),
- chemical wholesalers (SIC code 5169),
- petroleum terminals and bulk stations (SIC code 5171), and
- solvent recovery services (SIC code 7389).

In the TRI public data release materials, including this volume, reporting by two of these industries—solvent recovery services and RCRA subtitle C hazardous waste treatment and disposal facilities—is analyzed together.

By July 1 each year, facilities must report their estimated amounts of releases and other waste management of toxic chemicals for the preceding calendar year. Facilities provide this information to EPA and to the state in which they are located. For 1998, 23,487 facilities filed 87,328 individual chemical reporting forms. After completion of data entry and data quality assurance activities, EPA makes these data available to the public through on-line databases and a variety of other means, including this report.

For further information about TRI and for assistance in obtaining TRI documents, contact the EPCRA Information Hotline at 1-800-424-9346. For assistance in obtaining

access to the data, contact the TRI User Support Service at 202-260-1531. For further information about individual state TRI programs, contact the state TRI coordinator listed at the bottom of the fact sheet for that state.

❖ TRI Data by State: ❖ Overview

Tables on the following pages summarize 1998 TRI reporting by state. These tables do not contain the footnotes that appear on the individual state fact sheets for Florida, Iowa, Minnesota, Montana, and Virginia. For 1998, individual tables rank states and summarize their data for:

- **on- and off-site releases** (includes transfers out-of-state for disposal and, for tables with all industries, excludes transfers to disposal sent to other TRI facilities that reported the amount as an on-site release),
- **on-site releases** (includes amounts released at the facility; excludes amounts transferred to other sites for disposal),
- **releases within each state** (includes off-site releases sent into the state by facilities in other locations, excludes transfers out-of-state for disposal, and excludes transfers to disposal sent to other TRI facilities that reported the amount as an on-site release),
- **transfers for further waste management**—sent to recycling, energy recovery, treatment, and Publicly Owned Treatment Works (POTWs)—or for disposal (excluding metals sent to POTWs), and
- **transfers of metals** (and their compounds) and non-metals to POTWs.

Additional tables summarize on-site and off-site releases, as well as on-site releases, separately for new and original reporting industries. Similar tables provide comparable data for 1997, 1996, and 1995. The final tables supply totals for on- and off-site releases for the four-year period, 1995–1998 and for 1988 and 1995–1998. This last table does not include data on chemicals whose reporting requirements have changed during the period 1988 through 1998. Therefore, it does not include delisted chemicals, chemicals added in 1990, 1991, 1994 and 1995, aluminum oxide, ammonia, hydrochloric acid and sulfuric acid.

The following section, "Description of the Fact Sheets," explains data provided in these summary tables, as well as in the individual state fact sheets.

❖ Description of the Fact Sheets

Each four-page state fact sheet provides the following:

State Summary Data
(First Page for Each State)

Data are presented for the original industries (those which have been required to report to TRI since its inception and federal facilities), new industries reporting for the

first time in 1998, and the total for all industries.

- **Reported Releases and Waste Management Activities**:
  - **On- and Off-site Releases**: The amounts of toxic chemicals released to air, water, and land and injected into underground wells (on-site releases) at reporting facilities within the state and the amounts of toxic chemicals transferred off-site to disposal (off-site releases) by reporting facilities within the state. Off-site releases include transfers to disposal of all TRI chemicals plus transfers of metals and metal compounds to solidification/stabilization, to wastewater treatment (excluding POTWs), and to POTWs. Off-site transfer data exclude amounts sent for disposal to other TRI facilities that report those amounts as on-site releases.
- **Waste Management**: Quantities of TRI chemicals in Production-related Waste Managed by reporting facilities, including recycling, energy recovery, and treatment on-site and off-site, as well as the quantity released on- and off-site. Non-production-related Waste Managed includes quantities released as the result of one-time events, for example, remedial activities or catastrophic events.

Total On- and Off-site Releases is not the same as Quantity Released On- and Off-site. These *State Fact Sheets* present both amounts in the top left corner for each state. Facilities are also ranked separately in each state for both of these measures of releases.

The difference between these amounts arises primarily from the types of releases reported on different sections of the Form R. Total On- and Off-site Releases reflects all on-site releases collected in Section 5 of Form R plus off-site releases (transfers off-site for disposal) reported in Section 6 (including metals and metal compounds transferred to solidification/stabilization and to wastewater treatment, including POTWs). The Quantity Released On- and Off-site is reported in Section 8.1 of Form R. This quantity reflects production-related releases and excludes releases associated with catastrophic events, remedial actions, and other one-time events not related to production.

Other reasons also contribute to the different quantities reported in different sections of the Form R. For example, a release or transfer of less than 1,000 pounds may be reported in ranges in Section 5 and 6, whereas an exact amount must be included in Section 8. Furthermore, facilities may round off the quantities reported in Section 8 to two significant digits.

In 1998, some facilities reported transfers of metals and metal compounds to solidification/stabilization and to wastewater treatment (excluding POTWs) using incorrect disposal codes in Section 6 of Form R (codes M40 and M61). For the *1998 TRI Public Data Release* and the *State Fact Sheets*, off-site releases include these amounts. These facilities may have reported these transfers in Section 8 as treated off-site rather than incorporating the amounts into Quantity Released On- and Off-site. Because of the differences between Section 6 and Section 8 reporting, EPA cannot correct these Section 8 quantities.

- **Transfers Off-site for Further Waste Management/Disposal:** Amounts of TRI chemicals sent off-site whether for further waste management—recycling, energy recovery, treatment, POTWs—or for disposal (off-site releases). For amounts transferred to POTWs, metals and metal compounds are identified separately from non-metals.
- **State map** with triangles and squares marking the location of each facility reporting to the TRI in 1998, specifically squares for new industries and triangles for original industries. Triangles and squares are proportionally sized to represent each facility's total on-site releases.
- **Population** and **area** of the state, the **number of facilities** reporting to TRI from the state, and the **number of forms** submitted by those facilities. Population statistics for the 50 states and the District of Columbia are 1998 U.S. Census estimates issued in December 1998; the U.S. Census estimates for American Samoa, Guam, the Northern Marianas, Puerto Rico, and the Virgin Islands were issued in December 1999.
- The state's **national rank** (and pounds) for total on- and off-site releases (includes transfers out-of-state for disposal and excludes transfer amounts sent to other TRI facilities reporting that amount as on-site releases), for total on-site releases (includes amounts released at the facility; excludes amounts transferred to other sites), for total releases within the state (includes off-site releases sent into the state by facilities in other locations, excludes transfers out-of-state for disposal and transfers to other TRI facilities in the state reporting that amount as on-site releases), and for total production-related waste managed.
- **Contact** names, telephone numbers, and fax numbers for the state TRI coordinator and for the EPA TRI coordinator for the region in which the state is located.

Chemicals and Facilities with Largest Amounts

(Second through Fourth Pages for Each State)

Chemicals and facilities are ranked separately for the original industries (those which have been required to report to TRI since its inception and federal facilities) and for new industries reporting for the first time in 1998.

- The **10 chemicals released in the state in the largest amounts** (including transfers into the state for disposal and excluding transfers out-of-state for disposal, as well as transfers within the state to other TRI facilities reporting that amount as on-site releases). Ranking of chemicals includes on-site releases

(reported in Section 5 of TRI's Form R) and off-site releases (reported in Section 6 of TRI's Form R, including transfers of metals and metal compounds to solidification/stabilization and to wastewater treatment including POTWs). Data on all transfers into, within, and out of the state are also presented.

- The **10 facilities reporting the largest amounts of total on-site releases** of TRI chemicals (reported in Section 5 of TRI's Form R). Ranking of these facilities excludes amounts transferred off-site for disposal, although information on transfers within the state and out of state (reported in Section 6 of TRI's Form R) is provided.

- The **10 facilities reporting the largest total quantities of TRI chemicals released on- and off-site** (reported in Section 8.1 of TRI's Form R). These tables supply data for all categories of production-related waste managed and for non-production-related waste managed.

Table 1. TRI On-site and Off-site Releases by State, 1998, All Industries (Ordered by Total Releases)

State	On-site Releases: Fugitive or Nonpoint Air Emissions Pounds	On-site Releases: Stack or Point Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: Releases to Land Pounds	Total On-site Releases Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total On- and Off-site Releases Pounds
Nevada	1,863,246	2,552,296	236,050	1,404	1,266,957,467	1,271,610,463	112,211	1,271,722,674
Arizona	4,228,226	5,799,378	6,186	4	1,058,532,077	1,068,565,871	893,551	1,069,459,422
Utah	2,106,573	62,631,333	1,146,758	0	507,128,243	573,012,907	1,212,598	574,225,505
Ohio	16,393,383	142,927,564	6,168,169	31,170,724	90,380,125	287,039,965	49,228,311	336,268,276
Texas	42,729,159	76,965,492	25,206,597	92,141,824	51,002,119	288,045,191	24,194,355	312,239,546
Alaska	976,961	1,959,028	97,763	29,024,256	274,960,499	307,018,507	632	307,019,139
New Mexico	1,051,943	1,571,239	20,984	0	251,818,888	254,463,054	5,656,261	260,119,315
Pennsylvania	11,031,580	86,765,678	46,127,006	160,801	12,001,157	156,086,222	60,078,543	216,164,765
Indiana	17,650,611	79,743,041	2,433,055	1,040,393	32,146,092	133,013,192	56,462,378	189,475,570
Louisiana	16,535,648	63,205,575	37,233,226	53,375,389	16,329,990	186,679,828	1,928,251	188,608,079
Illinois	14,051,072	77,095,926	6,310,260	250	48,931,758	146,389,266	22,908,285	169,297,551
Alabama	12,168,182	70,702,612	5,032,032	45,005	41,940,998	129,888,829	18,082,985	147,971,814
Florida	7,277,968	82,588,365	2,116,926	27,473,112	22,993,597	142,449,968	4,500,260	146,950,228
Michigan	7,684,072	67,409,561	685,649	3,431,059	19,957,839	99,168,180	41,775,837	140,944,017
Tennessee	12,494,973	92,326,511	1,797,975	3,816,300	22,308,331	132,744,090	6,568,559	139,312,649
Missouri	6,665,900	36,806,777	2,688,106	0	86,273,320	132,434,103	4,410,931	136,845,034
North Carolina	8,464,990	84,949,002	7,395,637	29,100	27,026,098	127,864,827	5,533,092	133,397,919
Montana	814,812	4,494,721	94,186	0	117,357,337	122,761,056	759,895	123,520,951
Georgia	6,345,146	87,556,081	6,426,876	0	13,308,838	113,636,941	2,413,727	116,050,668
South Carolina	6,976,063	50,129,860	3,351,638	0	32,544,679	93,002,240	14,298,188	107,300,428
West Virginia	4,037,356	72,090,395	7,637,046	38	11,680,198	95,445,033	8,395,291	103,840,324
Kentucky	8,919,561	66,694,129	1,401,436	0	17,147,971	94,163,097	7,296,692	101,459,789
Idaho	1,966,140	4,335,605	5,582,972	0	87,481,766	99,366,483	214,965	99,581,448
Virginia	9,300,997	53,597,170	5,352,544	0	4,425,397	72,676,108	7,248,778	79,924,886
Mississippi	7,675,339	37,069,626	11,388,138	6,892,506	7,537,835	70,563,444	1,187,800	71,751,244
California	8,993,316	19,169,386	3,854,741	81,905	30,506,339	62,605,687	8,084,691	70,690,378
New York	4,776,470	33,577,126	8,047,687	500	18,369,142	64,770,925	5,673,581	70,444,506
Wisconsin	3,963,684	34,842,694	3,737,299	0	3,201,605	45,745,282	14,986,960	60,732,242
Oregon	3,874,894	12,619,388	2,573,148	0	34,181,170	53,248,600	1,892,207	55,140,807
Iowa	6,188,269	28,107,620	3,133,303	0	6,229,511	43,658,703	5,360,366	49,019,069
Oklahoma	4,771,392	18,336,149	813,386	4,428,020	9,196,199	37,545,146	4,286,188	41,831,334
Kansas	4,290,804	20,365,759	627,879	1,350,665	6,881,910	33,517,017	6,546,927	40,063,944
Arkansas	5,888,058	21,266,605	1,840,727	1,172,187	4,312,149	34,479,726	4,535,509	39,015,235
Maryland	1,285,986	31,780,241	2,508,371	45,000	2,142,176	37,761,774	1,155,207	38,916,981
Washington	3,989,225	18,872,771	3,498,359	0	4,277,839	30,638,194	3,852,934	34,491,128
Minnesota	3,276,036	14,401,994	830,817	0	10,385,037	28,893,884	3,482,442	32,376,326
New Jersey	3,353,886	13,971,253	6,170,330	2	654,434	24,149,905	6,613,550	30,763,455
Colorado	1,356,404	3,638,218	1,001,976	3,975,708	15,166,298	25,138,604	5,119,121	30,257,725
North Dakota	908,617	2,752,535	102,291	0	8,168,573	11,932,016	11,450,190	23,382,206
Wyoming	795,176	3,184,300	18,972	7,656,805	9,932,166	21,587,419	1,194,418	22,781,837
South Dakota	622,795	1,966,985	1,018,712	0	18,490,312	22,098,804	211,928	22,310,732
Nebraska	1,969,028	8,471,992	2,607,998	0	4,355,595	17,404,613	3,877,151	21,281,764

**Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.*

Table 1. TRI On-site and Off-site Releases by State, 1998, All Industries (Ordered by Total Releases) *(continued)*

State	On-site Releases					Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal* Pounds	
Puerto Rico	2,794,190	13,877,951	201,786	0	164,298	17,038,225	907,354	17,945,579
Massachusetts	1,454,764	9,290,885	61,602	0	43,632	10,850,883	4,096,662	14,947,545
Delaware	691,828	10,379,360	807,092	0	937,766	12,816,046	351,394	13,167,440
Connecticut	1,961,412	4,295,646	600,410	0	36,943	6,894,411	3,069,711	9,964,122
Maine	1,010,166	5,605,177	1,096,897	0	861,509	8,573,749	1,173,015	9,746,764
New Hampshire	286,171	6,039,023	127,630	0	103,787	6,556,611	504,391	7,061,002
Hawaii	214,244	3,351,301	2,057	3,849	33,634	3,605,085	7,768	3,612,853
Rhode Island	607,770	1,329,366	1,826	0	505	1,939,467	334,064	2,273,531
Virgin Islands	653,400	366,336	64,735	0	1,502	1,085,973	177	1,086,150
Vermont	75,523	113,687	151,374	0	1,005	341,589	71,376	412,965
District of Columbia	2,950	66,000	6	0	8,800	77,756	5	77,761
American Samoa	8,765	5,131	1	0	0	13,897	0	13,897
Guam	8,476	1,307	1,275	0	0	11,058	0	11,058
Northern Marianas	2,585	481	20	0	0	3,086	0	3,086
Total	**299,486,185**	**1,754,013,632**	**231,439,922**	**267,316,806**	**4,310,816,455**	**6,863,073,000**	**444,201,663**	**7,307,274,663**

**Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.*

Table 2. TRI On-site Releases by State, 1998, All Industries (Ordered by Total On-site Releases)

State	On-site Releases: Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds
Nevada	1,863,246	2,552,296	236,050	1,404	1,266,957,467	1,271,610,463
Arizona	4,228,226	5,799,378	6,186	4	1,058,532,077	1,068,565,871
Utah	2,106,573	62,631,333	1,146,758	0	507,128,243	573,012,907
Alaska	976,961	1,959,028	97,763	29,024,256	274,960,499	307,018,507
Texas	42,729,159	76,965,492	25,206,597	92,141,824	51,002,119	288,045,191
Ohio	16,393,383	142,927,564	6,168,169	31,170,724	90,380,125	287,039,965
New Mexico	1,051,943	1,571,239	20,984	0	251,818,888	254,463,054
Louisiana	16,535,648	63,205,575	37,233,226	53,375,389	16,329,990	186,679,828
Pennsylvania	11,031,580	86,765,678	46,127,006	160,801	12,001,157	156,086,222
Illinois	14,051,072	77,095,926	6,310,260	250	48,931,758	146,389,266
Florida	7,277,968	82,588,365	2,116,926	27,473,112	22,993,597	142,449,968
Indiana	17,650,611	79,743,041	2,433,055	1,040,393	32,146,092	133,013,192
Tennessee	12,494,973	92,326,511	1,797,975	3,816,300	22,308,331	132,744,090
Missouri	6,665,900	36,806,777	2,688,106	0	86,273,320	132,434,103
Alabama	12,168,182	70,702,612	5,032,032	45,005	41,940,998	129,888,829
North Carolina	8,464,990	84,949,002	7,395,637	29,100	27,026,098	127,864,827
Montana	814,812	4,494,721	94,186	0	117,357,337	122,761,056
Georgia	6,345,146	87,556,081	6,426,876	0	13,308,838	113,636,941
Idaho	1,966,140	4,335,605	5,582,972	0	87,481,766	99,366,483
Michigan	7,684,072	67,409,561	685,649	3,431,059	19,957,839	99,168,180
West Virginia	4,037,356	72,090,395	7,637,046	38	11,680,198	95,445,033
Kentucky	8,919,561	66,694,129	1,401,436	0	17,147,971	94,163,097
South Carolina	6,976,063	50,129,860	3,351,638	0	32,544,679	93,002,240
Virginia	9,300,997	53,597,170	5,352,544	0	4,425,397	72,676,108
Mississippi	7,675,339	37,069,626	11,388,138	6,892,506	7,537,835	70,563,444
New York	4,776,470	33,577,126	8,047,687	500	18,369,142	64,770,925
California	8,993,316	19,169,386	3,854,741	81,905	30,506,339	62,605,687
Oregon	3,874,894	12,619,388	2,573,148	0	34,181,170	53,248,600
Wisconsin	3,963,684	34,842,694	3,737,299	0	3,201,605	45,745,282
Iowa	6,188,269	28,107,620	3,133,303	0	6,229,511	43,658,703
Maryland	1,285,986	31,780,241	2,508,371	45,000	2,142,176	37,761,774
Oklahoma	4,771,392	18,336,149	813,386	4,428,020	9,196,199	37,545,146
Arkansas	5,888,058	21,266,605	1,840,727	1,172,187	4,312,149	34,479,726
Kansas	4,290,804	20,365,759	627,879	1,350,665	6,881,910	33,517,017
Washington	3,989,225	18,872,771	3,498,359	0	4,277,839	30,638,194
Minnesota	3,276,036	14,401,994	830,817	0	10,385,037	28,893,884
Colorado	1,356,404	3,638,218	1,001,976	3,975,708	15,166,298	25,138,604
New Jersey	3,353,886	13,971,253	6,170,330	2	654,434	24,149,905
South Dakota	622,795	1,966,985	1,018,712	0	18,490,312	22,098,804
Wyoming	795,176	3,184,300	18,972	7,656,805	9,932,166	21,587,419
Nebraska	1,969,028	8,471,992	2,607,998	0	4,355,595	17,404,613

Table 2. TRI On-site Releases by State, 1998, All Industries (Ordered by Total On-site Releases) *(continued)*

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Puerto Rico	2,794,190	13,877,951	201,786	0	164,298	17,038,225
Delaware	691,828	10,379,360	807,092	0	937,766	12,816,046
North Dakota	908,617	2,752,535	102,291	0	8,168,573	11,932,016
Massachusetts	1,454,764	9,290,885	61,602	0	43,632	10,850,883
Maine	1,010,166	5,605,177	1,096,897	0	861,509	8,573,749
Connecticut	1,961,412	4,295,646	600,410	0	36,943	6,894,411
New Hampshire	286,171	6,039,023	127,630	0	103,787	6,556,611
Hawaii	214,244	3,351,301	2,057	3,849	33,634	3,605,085
Rhode Island	607,770	1,329,366	1,826	0	505	1,939,467
Virgin Islands	653,400	366,336	64,735	0	1,502	1,085,973
Vermont	75,523	113,687	151,374	0	1,005	341,589
District of Columbia	2,950	66,000	6	0	8,800	77,756
American Samoa	8,765	5,131	1	0	0	13,897
Guam	8,476	1,307	1,275	0	0	11,058
Northern Marianas	2,585	481	20	0	0	3,086
Total	**299,486,185**	**1,754,013,632**	**231,439,922**	**267,316,806**	**4,310,816,455**	**6,863,073,000**

Table 3. TRI Releases Within the State, 1998, All Industries (Ordered by Total Releases Within the State)

State	On-site Releases						Off-site Releases (Transfers Off-site to Disposal)*		Total Releases Within the State
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Under-ground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Pounds
Nevada	1,863,246	2,552,296	236,050	1,404	1,266,957,467	1,271,610,463	4,131,662	68,343	1,275,810,468
Arizona	4,228,226	5,799,378	6,186	4	1,058,532,077	1,068,565,871	381,848	335,515	1,069,283,234
Utah	2,106,573	62,631,333	1,146,758	0	507,128,243	573,012,907	3,323,703	962,120	577,298,730
Ohio	16,393,383	142,927,564	6,168,169	31,170,724	90,380,125	287,039,965	12,688,308	39,103,392	338,831,665
Texas	42,729,159	76,965,492	25,206,597	92,141,824	51,002,119	288,045,191	5,780,782	20,732,960	314,558,933
Alaska	976,961	1,959,028	97,763	29,024,256	274,960,499	307,018,507	76	45	307,018,628
New Mexico	1,051,943	1,571,239	20,984	0	251,818,888	254,463,054	0	5,605,371	260,068,425
Pennsylvania	11,031,580	86,765,678	46,127,006	160,801	12,001,157	156,086,222	9,197,811	48,826,678	214,110,711
Louisiana	16,535,648	63,205,575	37,233,226	53,375,389	16,329,990	186,679,828	2,471,982	1,382,114	190,533,924
Indiana	17,650,611	79,743,041	2,433,055	1,040,393	32,146,092	133,013,192	3,233,362	45,259,733	181,506,287
Illinois	14,051,072	77,095,926	6,310,260	250	48,931,758	146,389,266	5,873,195	19,056,129	171,318,590
Michigan	7,684,072	67,409,561	685,649	3,431,059	19,957,839	99,168,180	14,319,317	38,546,751	152,034,248
Florida	7,277,968	82,588,365	2,116,926	27,473,112	22,993,597	142,449,968	80,076	2,538,718	145,068,762
Alabama	12,168,182	70,702,612	5,032,032	45,005	41,940,998	129,888,829	702,386	9,777,164	140,368,379
Tennessee	12,494,973	92,326,511	1,797,975	3,816,300	22,308,331	132,744,090	454,448	5,655,036	138,853,574
Missouri	6,665,900	36,806,777	2,688,106	0	86,273,320	132,434,103	673,459	3,519,758	136,627,320
North Carolina	8,464,990	84,949,002	7,395,637	29,100	27,026,098	127,864,827	550,123	4,284,244	132,699,194
Montana	814,812	4,494,721	94,186	0	117,357,337	122,761,056	8,300	159,695	122,929,051
Georgia	6,345,146	87,556,081	6,426,876	0	13,308,838	113,636,941	490,202	1,470,912	115,598,055
South Carolina	6,976,063	50,129,860	3,351,638	0	32,544,679	93,002,240	1,502,738	12,701,761	107,206,739
West Virginia	4,037,356	72,090,395	7,637,046	38	11,680,198	95,445,033	982,277	6,726,226	103,153,536
Kentucky	8,919,561	66,694,129	1,401,436	0	17,147,971	94,163,097	2,696,930	5,327,959	102,187,986
Idaho	1,966,140	4,335,605	5,582,972	0	87,481,766	99,366,483	1,093,439	2,122	100,462,044
Virginia	9,300,997	53,597,170	5,352,544	0	4,425,397	72,676,108	164,994	5,429,519	78,270,621
New York	4,776,470	33,577,126	8,047,687	500	18,369,142	64,770,925	6,054,629	3,682,958	74,508,512
Mississippi	7,675,339	37,069,626	11,388,138	6,892,506	7,537,835	70,563,444	398,492	774,513	71,736,449
California	8,993,316	19,169,386	3,854,741	81,905	30,506,339	62,605,687	458,389	3,293,346	66,357,422
Wisconsin	3,963,684	34,842,694	3,737,299	0	3,201,605	45,745,282	2,991,767	14,278,569	63,015,618
Oregon	3,874,894	12,619,388	2,573,148	0	34,181,170	53,248,600	1,580,371	1,294,573	56,123,544
Iowa	6,188,269	28,107,620	3,133,303	0	6,229,511	43,658,703	125,894	2,320,016	46,104,613
Oklahoma	4,771,392	18,336,149	813,386	4,428,020	9,196,199	37,545,146	2,024,391	3,034,458	42,603,995
Maryland	1,285,986	31,780,241	2,508,371	45,000	2,142,176	37,761,774	353,216	762,625	38,877,615
Arkansas	5,888,058	21,266,605	1,840,727	1,172,187	4,312,149	34,479,726	1,452,389	2,923,282	38,855,397
Kansas	4,290,804	20,365,759	627,879	1,350,665	6,881,910	33,517,017	306,759	2,546,339	36,370,115
Washington	3,989,225	18,872,771	3,498,359	0	4,277,839	30,638,194	64,747	1,898,974	32,601,915
Minnesota	3,276,036	14,401,994	830,817	0	10,385,037	28,893,884	325,215	2,038,294	31,257,393
Colorado	1,356,404	3,638,218	1,001,976	3,975,708	15,166,298	25,138,604	29,219	4,942,462	30,110,285
New Jersey	3,353,886	13,971,253	6,170,330	2	654,434	24,149,905	1,143,955	2,549,575	27,843,435

* *Off-site Releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.*
** *Other includes waste sent to other countries, to sites not identified by the reporting facility and transfers to POTWs in more than one state.*

Table 3. TRI Releases Within the State, 1998, All Industries (Ordered by Total Releases Within the State) *(continued)*

State	On-site Releases						Off-site Releases (Transfers Off-site to Disposal)*		Total Releases Within the State Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Under-ground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transferred Into State Pounds	Transferred Within State Pounds	
North Dakota	908,617	2,752,535	102,291	0	8,168,573	11,932,016	33,606	11,273,328	23,238,950
Wyoming	795,176	3,184,300	18,972	7,656,805	9,932,166	21,587,419	1,959	1,175,205	22,764,583
South Dakota	622,795	1,966,985	1,018,712	0	18,490,312	22,098,804	0	211,407	22,310,211
Nebraska	1,969,028	8,471,992	2,607,998	0	4,355,595	17,404,613	669,905	3,724,964	21,799,482
Puerto Rico	2,794,190	13,877,951	201,786	0	164,298	17,038,225	4	812,127	17,850,356
Delaware	691,828	10,379,360	807,092	0	937,766	12,816,046	685,286	97,194	13,598,526
Massachusetts	1,454,764	9,290,885	61,602	0	43,632	10,850,883	420,830	1,968,632	13,240,345
Maine	1,010,166	5,605,177	1,096,897	0	861,509	8,573,749	117,777	986,797	9,678,323
Connecticut	1,961,412	4,295,646	600,410	0	36,943	6,894,411	342,335	1,170,545	8,407,291
New Hampshire	286,171	6,039,023	127,630	0	103,787	6,556,611	299,439	178,650	7,034,700
Hawaii	214,244	3,351,301	2,057	3,849	33,634	3,605,085	0	7,242	3,612,327
Rhode Island	607,770	1,329,366	1,826	0	505	1,939,467	275,509	101,262	2,316,238
Virgin Islands	653,400	366,336	64,735	0	1,502	1,085,973	0	0	1,085,973
Vermont	75,523	113,687	151,374	0	1,005	341,589	9,886	15,675	367,150
District of Columbia	2,950	66,000	6	0	8,800	77,756	795	0	78,551
American Samoa	8,765	5,131	1	0	0	13,897	0	0	13,897
Guam	8,476	1,307	1,275	0	0	11,058	0	0	11,058
Northern Marianas	2,585	481	20	0	0	3,086	0	0	3,086
Other**	0	0	0	0	0	0	7,721,350	0	7,721,350
Total	**299,486,185**	**1,754,013,632**	**231,439,922**	**267,316,806**	**4,310,816,455**	**6,863,073,000**	**98,689,532**	**345,535,277**	**7,307,297,809**

* *Off-site Releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.*
** *Other includes waste sent to other countries, to sites not identified by the reporting facility and transfers to POTWs in more than one state.*

Table 4. TRI Transfers for Further Waste Management and Disposal by State, 1998 (Ordered by Total Transfers)

State	Transfers to Recycling Pounds	Transfers to Energy Recovery Pounds	Transfers to Treatment Pounds	Transfers to POTWs: Metals and Metal Compounds Pounds	Transfers to POTWs: Non-metal TRI Chemicals Pounds	Other Off-site Transfers* Pounds	Off-site Transfers to Disposal** Pounds	Total Transfers Off-site for Further Waste Management/ Disposal Pounds
Michigan	114,462,707	199,207,628	68,254,576	600,694	17,318,547	24,838	41,870,892	441,739,882
Texas	147,445,206	118,228,791	38,939,970	49,089	54,172,060	197,474	30,218,864	389,251,454
Ohio	184,104,983	101,264,281	19,547,776	322,689	16,682,571	8,071	58,467,649	380,398,020
Indiana	180,117,219	84,711,612	12,975,207	166,435	6,611,997	9,067	62,950,018	347,541,555
Pennsylvania	145,123,410	21,649,459	14,163,944	80,226	9,667,058	32,249	69,768,125	260,484,471
Illinois	91,476,291	34,882,077	12,327,579	738,416	9,399,979	163,671	36,469,028	185,457,041
South Carolina	48,199,482	38,563,168	12,039,678	43,443	5,247,378	30,430	20,058,601	124,182,180
California	72,763,322	17,208,557	6,690,060	116,203	17,213,697	0	10,161,130	124,152,969
New Jersey	41,352,812	47,309,414	7,663,033	48,258	19,804,666	132,581	6,636,209	122,946,973
Wisconsin	57,025,546	19,493,724	11,664,056	82,933	5,201,407	6,410	15,805,857	109,279,933
North Carolina	81,376,629	13,725,596	4,311,800	27,152	2,088,963	0	6,721,015	108,251,155
New York	82,916,522	7,793,839	5,205,173	147,248	4,920,177	6,000	6,040,882	107,029,841
Alabama	36,223,964	40,983,384	9,050,679	40,413	1,191,748	0	18,980,993	106,471,181
Tennessee	66,915,664	8,531,937	3,581,267	49,867	5,583,699	9,110	8,318,795	92,990,339
Kentucky	51,440,765	18,506,272	8,998,237	46,435	1,586,314	33,054	8,441,901	89,052,978
Missouri	58,117,787	11,691,564	8,699,426	130,512	4,059,231	18,160	4,359,996	87,076,676
Georgia	51,137,421	12,380,195	5,542,682	70,047	3,254,306	4,948	9,716,884	82,106,483
Louisiana	44,876,193	17,780,451	16,505,463	899	243,396	5,434	2,262,533	81,674,369
Arkansas	43,804,080	11,994,213	2,090,962	21,895	151,308	0	20,051,544	78,114,002
Iowa	51,145,108	3,614,147	4,559,193	256,579	6,688,502	0	9,909,563	76,173,092
Kansas	60,107,838	3,652,267	899,622	41,380	990,066	0	6,637,261	72,328,434
Virginia	22,659,616	8,586,981	2,625,838	57,514	13,911,102	750	7,617,646	55,459,447
Puerto Rico	13,083,907	19,664,832	10,861,560	2,379	3,273,534	1,428	914,648	47,802,288
Massachusetts	24,366,207	7,261,124	4,722,814	23,331	6,501,281	0	4,161,644	47,036,401
Oregon	15,250,475	2,002,007	1,796,705	6,818	13,983,591	0	11,803,646	44,843,242
Florida	21,455,715	4,559,500	3,105,037	13,673	6,293,282	0	5,040,806	40,468,013
Minnesota	23,095,447	2,302,174	1,246,448	136,929	9,513,771	0	3,836,023	40,130,792
Arizona	29,495,041	1,133,387	1,222,844	6,047	1,747,651	0	1,170,470	34,775,440
Colorado	19,410,829	4,961,899	1,907,137	3,121	1,130,386	0	5,816,808	33,230,180
Connecticut	18,927,228	2,282,981	7,299,306	10,319	1,198,978	4,106	3,338,109	33,061,027
Nebraska	24,063,663	581,728	239,976	12,962	594,998	0	6,964,925	32,458,252
Oklahoma	21,823,780	4,550,460	467,366	13,591	523,642	0	4,492,081	31,870,920
West Virginia	6,605,257	9,900,001	2,560,105	4,408	3,503,011	0	8,425,533	30,998,315
Mississippi	17,225,840	5,952,246	1,574,297	8,291	575,613	0	1,291,020	26,627,307
Washington	6,852,787	2,040,659	1,366,326	2,707	2,715,006	236,279	8,473,327	21,687,091
Delaware	11,981,315	1,491,543	632,881	12,190	3,321,661	0	422,809	17,862,399
New Hampshire	13,959,083	2,326,584	326,795	3,787	357,837	0	508,782	17,482,868
Maryland	4,796,639	780,702	6,349,150	65,973	2,876,863	0	1,110,826	15,980,153
Rhode Island	11,130,441	530,378	1,050,148	11,420	353,140	750	341,297	13,417,574

* *Transfers reported without a valid waste management code.*
** *Excludes metals and metal compounds sent to POTWs.*

Table 4. TRI Transfers for Further Waste Management and Disposal by State, 1998 (Ordered by Total Transfers) *(continued)*

State	Transfers to Recycling Pounds	Transfers to Energy Recovery Pounds	Transfers to Treatment Pounds	Transfers to POTWs: Metals and Metal Compounds Pounds	Transfers to POTWs: Non-metal TRI Chemicals Pounds	Other Off-site Transfers* Pounds	Off-site Transfers to Disposal** Pounds	Total Transfers Off-site for Further Waste Management/ Disposal Pounds
North Dakota	685,917	51,794	4,458	17	587,700	0	11,450,669	12,780,555
Utah	2,686,740	173,819	636,657	2,581	352,779	0	8,261,145	12,113,721
New Mexico	1,086,680	52,744	245,804	409	313,280	0	5,655,852	7,354,769
Montana	46,501	57,503	60,333	255	15,846	0	5,005,370	5,185,808
Maine	2,159,025	294,062	90,141	57,292	270,318	3,504	1,116,529	3,990,871
Nevada	2,749,896	26,125	255,987	2	45,510	0	342,267	3,419,787
Idaho	2,081,308	159,139	59,509	472	819,792	0	260,703	3,380,923
South Dakota	1,075,959	70,440	265,788	1,317	1,127,134	0	210,611	2,751,249
Wyoming	412,056	9,920	432	20	255	0	1,194,399	1,617,082
Vermont	732,626	17,016	149,988	525	242,003	0	75,243	1,217,401
Virgin Islands	145,485	0	390,820	0	0	0	177	536,482
Hawaii	110,652	689	3,499	0	0	0	24,675	139,515
Alaska	65,612	5,162	2,867	0	5	0	11,437	85,083
District of Columbia	7,300	0	0	0	5,700	0	5	13,005
American Samoa	0	4,795	0	0	0	0	0	4,795
Guam	0	0	0	0	0	0	0	0
Northern Marianas	0	0	0	0	0	0	0	0
Total	**2,030,361,976**	**915,004,970**	**325,231,399**	**3,539,163**	**268,232,739**	**928,314**	**563,187,222**	**4,106,485,783**

* *Transfers reported without a valid waste management code.*
** *Excludes metals and metal compounds sent to POTWs.*

Table 5. TRI Transfers to POTWs by State, 1998
(Ordered by Total Transfers to POTWs)

State	Transfers of Metals and Metal Compounds Pounds	Transfers of Non-metal TRI Chemicals Pounds	Total Transfers to POTWs Pounds
Texas	49,089	54,172,060	54,221,149
New Jersey	48,258	19,804,666	19,852,924
Michigan	600,694	17,318,547	17,919,241
California	116,203	17,213,697	17,329,900
Ohio	322,689	16,682,571	17,005,260
Oregon	6,818	13,983,591	13,990,409
Virginia	57,514	13,911,102	13,968,616
Illinois	738,416	9,399,979	10,138,395
Pennsylvania	80,226	9,667,058	9,747,284
Minnesota	136,929	9,513,771	9,650,700
Iowa	256,579	6,688,502	6,945,081
Indiana	166,435	6,611,997	6,778,432
Massachusetts	23,331	6,501,281	6,524,612
Florida	13,673	6,293,282	6,306,955
Tennessee	49,867	5,583,699	5,633,566
South Carolina	43,443	5,247,378	5,290,821
Wisconsin	82,933	5,201,407	5,284,340
New York	147,248	4,920,177	5,067,425
Missouri	130,512	4,059,231	4,189,743
West Virginia	4,408	3,503,011	3,507,419
Delaware	12,190	3,321,661	3,333,851
Georgia	70,047	3,254,306	3,324,353
Puerto Rico	2,379	3,273,534	3,275,913
Maryland	65,973	2,876,863	2,942,836
Washington	2,707	2,715,006	2,717,713
North Carolina	27,152	2,088,963	2,116,115
Arizona	6,047	1,747,651	1,753,698
Kentucky	46,435	1,586,314	1,632,749
Alabama	40,413	1,191,748	1,232,161
Connecticut	10,319	1,198,978	1,209,297
Colorado	3,121	1,130,386	1,133,507
South Dakota	1,317	1,127,134	1,128,451
Kansas	41,380	990,066	1,031,446
Idaho	472	819,792	820,264
Nebraska	12,962	594,998	607,960
North Dakota	17	587,700	587,717
Mississippi	8,291	575,613	583,904
Oklahoma	13,591	523,642	537,233
Rhode Island	11,420	353,140	364,560
New Hampshire	3,787	357,837	361,624
Utah	2,581	352,779	355,360

Table 5. TRI Transfers to POTWs by State, 1998 (Ordered by Total Transfers to POTWs) *(continued)*

State	Transfers of Metals and Metal Compounds Pounds	Transfers of Non-metal TRI Chemicals Pounds	Total Transfers to POTWs Pounds
Maine	57,292	270,318	327,610
New Mexico	409	313,280	313,689
Louisiana	899	243,396	244,295
Vermont	525	242,003	242,528
Arkansas	21,895	151,308	173,203
Nevada	2	45,510	45,512
Montana	255	15,846	16,101
District of Columbia	0	5,700	5,700
Wyoming	20	255	275
Alaska	0	5	5
Virgin Islands	0	0	0
Hawaii	0	0	0
American Samoa	0	0	0
Guam	0	0	0
Northern Marianas	0	0	0
Total	**3,539,163**	**268,232,739**	**271,771,902**

Table 6. TRI On-site and Off-site Releases by State, 1998, Original Industries (Ordered by Total Releases)†,‡

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	Pounds
Texas	42,262,449	68,443,036	25,158,641	88,197,920	20,237,631	244,299,677	18,382,165	262,681,842
Louisiana	16,502,198	58,987,922	37,153,990	52,845,038	8,005,432	173,494,580	2,109,303	175,603,883
Ohio	16,132,229	47,470,277	5,778,926	13,329,724	25,845,240	108,556,396	45,002,356	153,558,752
Pennsylvania	10,936,671	27,665,698	45,483,216	0	2,151,583	86,237,168	59,500,182	145,737,350
Indiana	17,463,896	35,333,311	2,117,917	1,039,913	14,421,721	70,376,758	50,564,251	120,941,009
Illinois	13,966,633	44,808,739	6,264,554	250	19,688,463	84,728,639	31,754,456	116,483,095
Utah	1,968,347	59,240,491	1,131,818	0	36,148,158	98,488,814	7,763,685	106,252,499
Tennessee	12,454,145	65,451,619	1,442,948	3,816,300	3,953,670	87,118,682	7,788,867	94,907,549
Alabama	12,143,747	42,016,843	4,810,219	5	12,063,365	71,034,179	18,485,743	89,519,922
Michigan	7,592,020	33,405,039	483,956	3,431,059	2,158,257	47,070,331	36,578,651	83,648,982
Florida	7,161,756	24,753,352	2,049,041	27,473,112	14,554,193	75,991,454	2,508,128	78,499,582
North Carolina	8,403,285	36,377,141	7,294,815	29,100	18,643,394	70,747,735	6,052,948	76,800,683
Georgia	6,327,008	40,294,804	6,288,967	0	2,172,316	55,083,095	9,784,137	64,867,232
Mississippi	7,660,807	27,776,134	11,383,390	6,892,506	5,509,305	59,222,142	1,298,560	60,520,702
South Carolina	6,903,618	36,381,037	3,343,152	0	2,016,779	48,644,586	11,051,030	59,695,616
Missouri	6,481,425	23,725,223	2,528,218	0	19,826,686	52,561,552	4,484,062	57,045,614
Virginia	9,266,995	36,030,888	2,561,850	0	1,617,352	49,477,085	7,371,247	56,848,332
Arizona	3,805,600	2,035,221	5,038	4	47,396,365	53,242,228	1,103,803	54,346,031
Montana	645,407	3,544,805	94,176	0	42,246,769	46,531,157	4,846,225	51,377,382
Arkansas	5,873,666	19,984,623	1,820,349	1,172,187	2,260,736	31,111,561	19,632,434	50,743,995
Wisconsin	3,941,345	21,094,128	3,711,391	0	1,442,063	30,188,927	13,591,765	43,780,692
California	8,458,324	18,324,506	3,854,111	81,905	1,861,485	32,580,331	9,999,998	42,580,329
Kentucky	8,869,069	21,838,307	613,048	0	3,297,996	34,618,420	6,414,866	41,033,286
Iowa	6,171,299	19,404,174	3,118,336	0	2,281,999	30,975,808	9,125,186	40,100,994
New York	4,657,969	17,209,804	7,873,875	500	139,808	29,881,956	5,607,894	35,489,850
Oregon	3,852,980	12,413,466	2,573,110	0	2,552,500	21,392,056	11,788,744	33,180,800
Washington	3,933,759	17,671,234	3,497,496	0	344,215	25,446,704	6,662,139	32,108,843
Kansas	4,254,674	15,238,151	620,344	1,350,665	1,109,525	22,573,359	6,564,476	29,137,835
West Virginia	3,599,141	8,805,608	7,266,259	20	43,557	19,714,585	6,470,900	26,185,485
New Mexico	818,115	713,575	12,508	0	23,174,487	24,718,685	109,121	24,827,806
Oklahoma	4,761,138	12,106,062	751,512	3,318,269	715,096	21,652,077	2,745,752	24,397,829
Idaho	1,947,302	4,303,061	5,575,048	0	10,664,410	22,489,821	261,102	22,750,923
New Jersey	3,154,861	6,175,209	6,132,478	2	342,534	15,805,084	4,154,328	19,959,412
Minnesota	3,266,915	12,638,028	812,176	0	287,522	17,004,641	2,866,013	19,870,654
Nebraska	1,943,612	4,395,116	2,487,238	0	575,594	9,401,560	6,785,421	16,186,981
Maryland	1,250,151	6,963,715	2,375,596	0	1,994,518	12,583,980	667,473	13,251,453
Maine	999,243	5,521,965	1,096,895	0	861,509	8,479,612	1,156,657	9,636,269
Wyoming	791,977	916,881	6,325	7,656,805	40,649	9,412,637	25,027	9,437,664
Connecticut	1,888,127	2,925,037	600,326	0	36,943	5,450,433	2,153,891	7,604,324

†*One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*

‡*This table includes all off-site releases reported, including off-site transfers to disposal sent to other facilities that reported that amount as an on-site release. Such off-site transfers are only excluded where the table presents amounts for all TRI facilities, for example on Table 1. For amounts of off-site releases which exclude transfers to disposal to other TRI facilities reporting that amount as an on-site release see the individual state fact sheets.*

Table 6. TRI On-site and Off-site Releases by State, 1998, Original Industries (Ordered by Total Releases)†,‡ *(continued)*

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	Pounds
Puerto Rico	2,563,029	3,941,692	128,874	0	9,557	6,643,152	645,513	7,288,665
Massachusetts	1,311,672	3,527,232	51,598	0	4,297	4,894,799	2,383,997	7,278,796
Delaware	686,336	3,552,156	747,352	0	347,187	5,333,031	170,537	5,503,568
Colorado	1,174,324	1,812,735	996,480	0	62,821	4,046,360	1,426,646	5,473,006
Nevada	562,783	1,187,739	0	0	2,421,469	4,171,991	32,854	4,204,845
South Dakota	535,729	1,778,711	808,061	0	13,807	3,136,308	114,923	3,251,231
New Hampshire	286,123	2,012,388	127,630	0	82,087	2,508,228	462,699	2,970,927
North Dakota	888,020	1,367,953	43,280	0	2,506	2,301,759	148,217	2,449,976
Alaska	484,547	1,354,370	96,428	256	1,872	1,937,473	11,086	1,948,559
Rhode Island	597,237	836,112	1,465	0	505	1,435,319	316,061	1,751,380
Virgin Islands	653,120	362,894	37,903	0	1,502	1,055,419	142	1,055,561
Hawaii	161,163	214,953	2,057	3,849	33,634	415,656	20,175	435,831
Vermont	75,523	113,687	151,374	0	1,005	341,589	75,768	417,357
District of Columbia	2,700	0	6	0	8,800	11,506	5	11,511
American Samoa	8,750	0	0	0	0	8,750	0	8,750
Guam	0	0	0	0	0	0	0	0
Northern Marianas	0	0	0	0	0	0	0	0
Total	**292,502,959**	**964,446,852**	**223,365,761**	**210,639,389**	**355,674,874**	**2,046,629,835**	**449,021,609**	**2,495,651,444**

†*One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*
‡*This table includes all off-site releases reported, including off-site transfers to disposal sent to other facilities that reported that amount as an on-site release. Such off-site transfers are only excluded where the table presents amounts for all TRI facilities, for example on Table 1. For amounts of off-site releases which exclude transfers to disposal to other TRI facilities reporting that amount as an on-site release see the individual state fact sheets.*

Table 7. TRI On-site Releases by State, 1998, Original Industries (Ordered by Total On-site Releases)†

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Texas	42,262,449	68,443,036	25,158,641	88,197,920	20,237,631	244,299,677
Louisiana	16,502,198	58,987,922	37,153,990	52,845,038	8,005,432	173,494,580
Ohio	16,132,229	47,470,277	5,778,926	13,329,724	25,845,240	108,556,396
Utah	1,968,347	59,240,491	1,131,818	0	36,148,158	98,488,814
Tennessee	12,454,145	65,451,619	1,442,948	3,816,300	3,953,670	87,118,682
Pennsylvania	10,936,671	27,665,698	45,483,216	0	2,151,583	86,237,168
Illinois	13,966,633	44,808,739	6,264,554	250	19,688,463	84,728,639
Florida	7,161,756	24,753,352	2,049,041	27,473,112	14,554,193	75,991,454
Alabama	12,143,747	42,016,843	4,810,219	5	12,063,365	71,034,179
North Carolina	8,403,285	36,377,141	7,294,815	29,100	18,643,394	70,747,735
Indiana	17,463,896	35,333,311	2,117,917	1,039,913	14,421,721	70,376,758
Mississippi	7,660,807	27,776,134	11,383,390	6,892,506	5,509,305	59,222,142
Georgia	6,327,008	40,294,804	6,288,967	0	2,172,316	55,083,095
Arizona	3,805,600	2,035,221	5,038	4	47,396,365	53,242,228
Missouri	6,481,425	23,725,223	2,528,218	0	19,826,686	52,561,552
Virginia	9,266,995	36,030,888	2,561,850	0	1,617,352	49,477,085
South Carolina	6,903,618	36,381,037	3,343,152	0	2,016,779	48,644,586
Michigan	7,592,020	33,405,039	483,956	3,431,059	2,158,257	47,070,331
Montana	645,407	3,544,805	94,176	0	42,246,769	46,531,157
Kentucky	8,869,069	21,838,307	613,048	0	3,297,996	34,618,420
California	8,458,324	18,324,506	3,854,111	81,905	1,861,485	32,580,331
Arkansas	5,873,666	19,984,623	1,820,349	1,172,187	2,260,736	31,111,561
Iowa	6,171,299	19,404,174	3,118,336	0	2,281,999	30,975,808
Wisconsin	3,941,345	21,094,128	3,711,391	0	1,442,063	30,188,927
New York	4,657,969	17,209,804	7,873,875	500	139,808	29,881,956
Washington	3,933,759	17,671,234	3,497,496	0	344,215	25,446,704
New Mexico	818,115	713,575	12,508	0	23,174,487	24,718,685
Kansas	4,254,674	15,238,151	620,344	1,350,665	1,109,525	22,573,359
Idaho	1,947,302	4,303,061	5,575,048	0	10,664,410	22,489,821
Oklahoma	4,761,138	12,106,062	751,512	3,318,269	715,096	21,652,077
Oregon	3,852,980	12,413,466	2,573,110	0	2,552,500	21,392,056
West Virginia	3,599,141	8,805,608	7,266,259	20	43,557	19,714,585
Minnesota	3,266,915	12,638,028	812,176	0	287,522	17,004,641
New Jersey	3,154,861	6,175,209	6,132,478	2	342,534	15,805,084
Maryland	1,250,151	6,963,715	2,375,596	0	1,994,518	12,583,980
Wyoming	791,977	916,881	6,325	7,656,805	40,649	9,412,637
Nebraska	1,943,612	4,395,116	2,487,238	0	575,594	9,401,560
Maine	999,243	5,521,965	1,096,895	0	861,509	8,479,612
Puerto Rico	2,563,029	3,941,692	128,874	0	9,557	6,643,152

†*One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*

Table 7. TRI On-site Releases by State, 1998, Original Industries (Ordered by Total On-site Releases)† *(continued)*

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Connecticut	1,888,127	2,925,037	600,326	0	36,943	5,450,433
Delaware	686,336	3,552,156	747,352	0	347,187	5,333,031
Massachusetts	1,311,672	3,527,232	51,598	0	4,297	4,894,799
Nevada	562,783	1,187,739	0	0	2,421,469	4,171,991
Colorado	1,174,324	1,812,735	996,480	0	62,821	4,046,360
South Dakota	535,729	1,778,711	808,061	0	13,807	3,136,308
New Hampshire	286,123	2,012,388	127,630	0	82,087	2,508,228
North Dakota	888,020	1,367,953	43,280	0	2,506	2,301,759
Alaska	484,547	1,354,370	96,428	256	1,872	1,937,473
Rhode Island	597,237	836,112	1,465	0	505	1,435,319
Virgin Islands	653,120	362,894	37,903	0	1,502	1,055,419
Hawaii	161,163	214,953	2,057	3,849	33,634	415,656
Vermont	75,523	113,687	151,374	0	1,005	341,589
District of Columbia	2,700	0	6	0	8,800	11,506
American Samoa	8,750	0	0	0	0	8,750
Guam	0	0	0	0	0	0
Northern Marianas	0	0	0	0	0	0
Total	**292,502,959**	**964,446,852**	**223,365,761**	**210,639,389**	**355,674,874**	**2,046,629,835**

†*One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*

Table 8. TRI On-site and Off-site Releases by State, 1998, New Industries (Ordered by Total Releases)†,‡

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	Pounds
Nevada	1,300,463	1,364,557	236,050	1,404	1,264,535,998	1,267,438,472	309,415	1,267,747,887
Arizona	422,626	3,764,157	1,148	0	1,011,135,712	1,015,323,643	72,714	1,015,396,357
Utah	138,226	3,390,842	14,940	0	470,980,085	474,524,093	500,041	475,024,134
Alaska	492,414	604,658	1,335	29,024,000	274,958,627	305,081,034	351	305,081,385
New Mexico	233,828	857,664	8,476	0	228,644,401	229,744,369	5,547,140	235,291,509
Ohio	261,154	95,457,287	389,243	17,841,000	64,534,885	178,483,569	13,787,982	192,271,551
Pennsylvania	94,909	59,099,980	643,790	160,801	9,849,574	69,849,054	10,348,169	80,197,223
Missouri	184,475	13,081,554	159,888	0	66,446,634	79,872,551	6,446	79,878,997
West Virginia	438,215	63,284,787	370,787	18	11,636,641	75,730,448	1,959,041	77,689,489
Idaho	18,838	32,544	7,924	0	76,817,356	76,876,662	73	76,876,735
Montana	169,405	949,916	10	0	75,110,568	76,229,899	159,400	76,389,299
Indiana	186,715	44,409,730	315,138	480	17,724,371	62,636,434	12,552,202	75,188,636
Florida	116,212	57,835,013	67,885	0	8,439,404	66,458,514	2,546,351	69,004,865
Illinois	84,439	32,287,187	45,706	0	29,243,295	61,660,627	5,452,988	67,113,615
Kentucky	50,492	44,855,822	788,388	0	13,849,975	59,544,677	2,073,470	61,618,147
Alabama	24,435	28,685,769	221,813	45,000	29,877,633	58,854,650	535,663	59,390,313
Georgia	18,138	47,261,277	137,909	0	11,136,522	58,553,846	2,794	58,556,640
Michigan	92,052	34,004,522	201,693	0	17,799,582	52,097,849	5,892,935	57,990,784
North Carolina	61,705	48,571,861	100,822	0	8,382,704	57,117,092	695,219	57,812,311
Texas	466,710	8,522,456	47,956	3,943,904	30,764,488	43,745,514	11,885,788	55,631,302
South Carolina	72,445	13,748,823	8,486	0	30,527,900	44,357,654	9,051,014	53,408,668
Tennessee	40,828	26,874,892	355,027	0	18,354,661	45,625,408	579,795	46,205,203
New York	118,501	16,367,322	173,812	0	18,229,334	34,888,969	580,236	35,469,205
Oregon	21,914	205,922	38	0	31,628,670	31,856,544	21,720	31,878,264
California	534,992	844,880	630	0	28,644,854	30,025,356	277,335	30,302,691
Maryland	35,835	24,816,526	132,775	45,000	147,658	25,177,794	509,326	25,687,120
Colorado	182,080	1,825,483	5,496	3,975,708	15,103,477	21,092,244	4,393,283	25,485,527
Virginia	34,002	17,566,282	2,790,694	0	2,808,045	23,199,023	303,913	23,502,936
North Dakota	20,597	1,384,582	59,011	0	8,166,067	9,630,257	11,302,469	20,932,726
South Dakota	87,066	188,274	210,651	0	18,476,505	18,962,496	97,005	19,059,501
Wisconsin	22,339	13,748,566	25,908	0	1,759,542	15,556,355	2,297,025	17,853,380
Oklahoma	10,254	6,230,087	61,874	1,109,751	8,481,103	15,893,069	1,759,920	17,652,989
Iowa	16,970	8,703,446	14,967	0	3,947,512	12,682,895	1,040,956	13,723,851
Wyoming	3,199	2,267,419	12,647	0	9,891,517	12,174,782	1,169,392	13,344,174
Louisiana	33,450	4,217,653	79,236	530,351	8,324,558	13,185,248	154,129	13,339,377
Minnesota	9,121	1,763,966	18,641	0	10,097,515	11,889,243	1,106,939	12,996,182
Mississippi	14,532	9,293,492	4,748	0	2,028,530	11,341,302	751	11,342,053
Kansas	36,130	5,127,608	7,535	0	5,772,385	10,943,658	114,165	11,057,823
New Jersey	199,025	7,796,044	37,852	0	311,900	8,344,821	2,530,139	10,874,960

†*One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*

‡*This table includes all off-site releases reported, including off-site transfers to disposal sent to other facilities that reported that amount as an on-site release. Such off-site transfers are only excluded where the table presents amounts for all TRI facilities, for example on Table 1. For amounts of off-site releases which exclude transfers to disposal to other TRI facilities reporting that amount as an on-site release see the individual state fact sheets.*

Table 8. TRI On-site and Off-site Releases by State, 1998, New Industries†,‡ (Ordered by Total Releases) *(continued)*

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	Pounds
Puerto Rico	231,161	9,936,259	72,912	0	154,741	10,395,073	271,514	10,666,587
Nebraska	25,416	4,076,876	120,760	0	3,780,001	8,003,053	192,466	8,195,519
Massachusetts	143,092	5,763,653	10,004	0	39,335	5,956,084	1,800,978	7,757,062
Delaware	5,492	6,827,204	59,740	0	590,579	7,483,015	264,462	7,747,477
Washington	55,466	1,201,537	863	0	3,933,624	5,191,490	1,813,895	7,005,385
New Hampshire	48	4,026,635	0	0	21,700	4,048,383	49,870	4,098,253
Arkansas	14,392	1,281,982	20,378	0	2,051,413	3,368,165	441,005	3,809,170
Hawaii	53,081	3,136,348	0	0	0	3,189,429	4,500	3,193,929
Connecticut	73,285	1,370,609	84	0	0	1,443,978	1,194,537	2,638,515
Rhode Island	10,533	493,254	361	0	0	504,148	36,656	540,804
Maine	10,923	83,212	2	0	0	94,137	17,164	111,301
District of Columbia	250	66,000	0	0	0	66,250	0	66,250
Virgin Islands	280	3,442	26,832	0	0	30,554	35	30,589
Guam	8,476	1,307	1,275	0	0	11,058	0	11,058
American Samoa	15	5,131	1	0	0	5,147	0	5,147
Northern Marianas	2,585	481	20	0	0	3,086	0	3,086
Total	**6,983,226**	**789,566,780**	**8,074,161**	**56,677,417**	**3,955,141,581**	**4,816,443,165**	**117,704,776**	**4,934,147,941**

†*One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*
‡*This table includes all off-site releases reported, including off-site transfers to disposal sent to other facilities that reported that amount as an on-site release. Such off-site transfers are only excluded where the table presents amounts for all TRI facilities, for example on Table 1. For amounts of off-site releases which exclude transfers to disposal to other TRI facilities reporting that amount as an on-site release see the individual state fact sheets.*

Table 9. TRI On-site Releases by State, 1998, New Industries (Ordered by Total On-site Releases)†

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Nevada	1,300,463	1,364,557	236,050	1,404	1,264,535,998	1,267,438,472
Arizona	422,626	3,764,157	1,148	0	1,011,135,712	1,015,323,643
Utah	138,226	3,390,842	14,940	0	470,980,085	474,524,093
Alaska	492,414	604,658	1,335	29,024,000	274,958,627	305,081,034
New Mexico	233,828	857,664	8,476	0	228,644,401	229,744,369
Ohio	261,154	95,457,287	389,243	17,841,000	64,534,885	178,483,569
Missouri	184,475	13,081,554	159,888	0	66,446,634	79,872,551
Idaho	18,838	32,544	7,924	0	76,817,356	76,876,662
Montana	169,405	949,916	10	0	75,110,568	76,229,899
West Virginia	438,215	63,284,787	370,787	18	11,636,641	75,730,448
Pennsylvania	94,909	59,099,980	643,790	160,801	9,849,574	69,849,054
Florida	116,212	57,835,013	67,885	0	8,439,404	66,458,514
Indiana	186,715	44,409,730	315,138	480	17,724,371	62,636,434
Illinois	84,439	32,287,187	45,706	0	29,243,295	61,660,627
Kentucky	50,492	44,855,822	788,388	0	13,849,975	59,544,677
Alabama	24,435	28,685,769	221,813	45,000	29,877,633	58,854,650
Georgia	18,138	47,261,277	137,909	0	11,136,522	58,553,846
North Carolina	61,705	48,571,861	100,822	0	8,382,704	57,117,092
Michigan	92,052	34,004,522	201,693	0	17,799,582	52,097,849
Tennessee	40,828	26,874,892	355,027	0	18,354,661	45,625,408
South Carolina	72,445	13,748,823	8,486	0	30,527,900	44,357,654
Texas	466,710	8,522,456	47,956	3,943,904	30,764,488	43,745,514
New York	118,501	16,367,322	173,812	0	18,229,334	34,888,969
Oregon	21,914	205,922	38	0	31,628,670	31,856,544
California	534,992	844,880	630	0	28,644,854	30,025,356
Maryland	35,835	24,816,526	132,775	45,000	147,658	25,177,794
Virginia	34,002	17,566,282	2,790,694	0	2,808,045	23,199,023
Colorado	182,080	1,825,483	5,496	3,975,708	15,103,477	21,092,244
South Dakota	87,066	188,274	210,651	0	18,476,505	18,962,496
Oklahoma	10,254	6,230,087	61,874	1,109,751	8,481,103	15,893,069
Wisconsin	22,339	13,748,566	25,908	0	1,759,542	15,556,355
Louisiana	33,450	4,217,653	79,236	530,351	8,324,558	13,185,248
Iowa	16,970	8,703,446	14,967	0	3,947,512	12,682,895
Wyoming	3,199	2,267,419	12,647	0	9,891,517	12,174,782
Minnesota	9,121	1,763,966	18,641	0	10,097,515	11,889,243
Mississippi	14,532	9,293,492	4,748	0	2,028,530	11,341,302
Kansas	36,130	5,127,608	7,535	0	5,772,385	10,943,658
Puerto Rico	231,161	9,936,259	72,912	0	154,741	10,395,073
North Dakota	20,597	1,384,582	59,011	0	8,166,067	9,630,257

†*One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*

Table 9. TRI On-site Releases by State, 1998, New Industries (Ordered by Total On-site Releases)† *(continued)*

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
New Jersey	199,025	7,796,044	37,852	0	311,900	8,344,821
Nebraska	25,416	4,076,876	120,760	0	3,780,001	8,003,053
Delaware	5,492	6,827,204	59,740	0	590,579	7,483,015
Massachusetts	143,092	5,763,653	10,004	0	39,335	5,956,084
Washington	55,466	1,201,537	863	0	3,933,624	5,191,490
New Hampshire	48	4,026,635	0	0	21,700	4,048,383
Arkansas	14,392	1,281,982	20,378	0	2,051,413	3,368,165
Hawaii	53,081	3,136,348	0	0	0	3,189,429
Connecticut	73,285	1,370,609	84	0	0	1,443,978
Rhode Island	10,533	493,254	361	0	0	504,148
Maine	10,923	83,212	2	0	0	94,137
District of Columbia	250	66,000	0	0	0	66,250
Virgin Islands	280	3,442	26,832	0	0	30,554
Guam	8,476	1,307	1,275	0	0	11,058
American Samoa	15	5,131	1	0	0	5,147
Northern Marianas	2,585	481	20	0	0	3,086
Total	**6,983,226**	**789,566,780**	**8,074,161**	**56,677,417**	**3,955,141,581**	**4,816,443,165**

†*One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*

Table 10. TRI On-site and Off-site Releases by State, 1997 (Ordered by Total Releases)

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	Pounds
Texas	44,250,345	63,075,319	22,155,408	89,590,809	21,436,680	240,508,561	21,891,947	262,400,508
Louisiana	15,340,056	59,182,381	46,909,472	56,318,454	7,793,009	185,543,372	2,264,899	187,808,271
Ohio	17,420,514	49,324,824	6,017,473	11,584,640	26,324,865	110,672,316	45,193,189	155,865,505
Pennsylvania	12,749,488	28,281,895	38,518,181	0	1,704,533	81,254,097	63,693,075	144,947,172
Illinois	14,571,322	51,632,311	4,855,018	3,352	22,826,205	93,888,208	33,270,215	127,158,423
Indiana	18,459,603	38,543,515	2,380,612	1,262,661	17,262,545	77,908,936	44,734,281	122,643,217
Tennessee	14,899,326	66,743,318	1,886,571	9,273,267	4,992,144	97,794,626	8,950,348	106,744,974
Utah	2,016,903	63,611,637	1,230,027	0	27,245,679	94,104,246	9,791,140	103,895,386
Florida	6,871,933	26,652,814	8,658,284	28,082,391	19,936,191	90,201,613	7,305,562	97,507,175
Alabama	13,464,216	48,948,900	4,761,413	10	10,501,014	77,675,553	17,102,354	94,777,907
Michigan	8,119,677	37,078,391	743,122	5,596,855	2,659,932	54,197,977	32,183,088	86,381,065
North Carolina	9,882,961	42,945,687	6,460,601	29,100	18,470,366	77,788,715	7,969,751	85,758,466
Georgia	6,784,264	41,948,148	7,181,118	0	3,147,663	59,061,193	13,769,335	72,830,528
Mississippi	8,608,980	29,873,931	11,955,081	8,544,641	6,109,545	65,092,178	1,731,591	66,823,769
Missouri	7,656,554	26,203,701	2,947,392	0	20,171,801	56,979,448	4,762,776	61,742,224
Arkansas	6,309,408	19,640,015	1,801,109	1,463,498	3,867,744	33,081,774	26,536,840	59,618,614
Virginia	10,374,721	37,127,183	3,861,671	0	1,430,930	52,794,505	5,584,348	58,378,853
South Carolina	7,134,769	34,966,599	3,051,895	0	2,199,060	47,352,323	9,471,534	56,823,857
Kentucky	9,764,243	24,952,397	669,456	0	2,883,792	38,269,888	8,575,062	46,844,950
Wisconsin	4,519,506	21,481,833	3,257,621	0	1,503,592	30,762,552	14,114,888	44,877,440
California	10,591,660	19,961,918	4,275,713	414,781	1,294,072	36,538,144	8,139,361	44,677,505
Montana	691,368	3,888,562	97,172	0	37,719,659	42,396,761	1,225,051	43,621,812
New Mexico	1,141,265	1,314,117	8,050	0	39,232,703	41,696,135	83,532	41,779,667
New York	5,410,799	19,087,459	4,949,332	500	1,328,607	30,776,697	8,714,570	39,491,267
Iowa	5,323,546	19,246,177	2,616,551	0	1,764,162	28,950,436	5,243,568	34,194,004
Washington	4,252,501	17,397,285	2,803,244	0	342,060	24,795,090	7,390,479	32,185,569
Arizona	6,291,657	2,786,178	4,866	6	22,116,264	31,198,971	442,840	31,641,811
Oregon	3,664,194	13,054,428	4,272,374	0	2,908,884	23,899,880	6,592,738	30,492,618
Kansas	4,820,052	15,378,998	571,315	996,103	1,055,273	22,821,741	4,009,684	26,831,425
West Virginia	3,812,409	10,497,511	6,787,566	0	71,656	21,169,142	4,141,107	25,310,249
Oklahoma	4,957,060	13,585,291	719,105	1,724,679	731,511	21,717,646	3,168,586	24,886,232
New Jersey	3,469,148	6,148,127	5,320,764	2	953,542	15,891,583	4,655,326	20,546,909
Minnesota	3,265,627	13,744,427	352,363	0	250,591	17,613,008	2,588,389	20,201,397
Nebraska	2,254,918	5,167,814	543,519	0	610,238	8,576,489	9,551,837	18,128,326
Idaho	1,721,249	3,637,294	1,128,221	0	11,015,894	17,502,658	258,883	17,761,541
Maryland	1,434,771	6,752,867	2,082,618	1	2,647,385	12,917,642	1,188,957	14,106,599
Connecticut	2,360,983	3,531,216	781,453	0	38,631	6,712,283	3,526,503	10,238,786
Maine	1,047,224	5,618,175	1,028,578	0	356,123	8,050,100	1,923,545	9,973,645
Wyoming	880,208	1,416,706	7,485	6,820,755	224,703	9,349,857	7,802	9,357,659
Puerto Rico	3,185,860	3,983,971	17,529	0	4,772	7,192,132	767,785	7,959,917
Massachusetts	1,979,531	3,757,748	49,480	0	32,153	5,818,912	1,359,568	7,178,480

Table 10. TRI On-site and Off-site Releases by State, 1997 (Ordered by Total Releases) *(continued)*

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	
Colorado	1,212,687	2,224,068	928,029	5	104,936	4,469,725	682,834	5,152,559
Alaska	521,559	3,758,097	333,613	430	1,948	4,615,647	1,507	4,617,154
Nevada	526,249	1,169,467	0	0	2,723,511	4,419,227	25,486	4,444,713
South Dakota	761,389	1,527,931	1,800,093	0	6,474	4,095,887	122,594	4,218,481
Delaware	549,034	2,382,288	747,709	0	317,103	3,996,134	184,826	4,180,960
New Hampshire	291,981	1,976,478	115,145	0	216,025	2,599,629	272,801	2,872,430
North Dakota	402,898	1,544,065	439,714	0	2,463	2,389,140	33,285	2,422,425
Rhode Island	860,965	942,222	2,177	0	2,094	1,807,458	399,991	2,207,449
Virgin Islands	977,512	423,886	25,723	0	1,468	1,428,589	108	1,428,697
Vermont	71,633	130,117	189,172	0	262	391,184	176,390	567,574
Hawaii	207,891	202,092	2,119	25,750	6,188	444,040	8,365	452,405
American Samoa	7,000	0	0	0	0	7,000	0	7,000
District of Columbia	3,300	10	5	0	3,300	6,615	0	6,615
Guam	0	0	0	0	0	0	0	0
Total	**318,148,917**	**1,018,451,789**	**222,302,322**	**221,732,690**	**350,551,945**	**2,131,187,663**	**455,784,521**	**2,586,972,184**

Table 11. TRI On-site Releases by State, 1997 (Ordered by Total On-site Releases)

State	On-site Releases: Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds
Texas	44,250,345	63,075,319	22,155,408	89,590,809	21,436,680	240,508,561
Louisiana	15,340,056	59,182,381	46,909,472	56,318,454	7,793,009	185,543,372
Ohio	17,420,514	49,324,824	6,017,473	11,584,640	26,324,865	110,672,316
Tennessee	14,899,326	66,743,318	1,886,571	9,273,267	4,992,144	97,794,626
Utah	2,016,903	63,611,637	1,230,027	0	27,245,679	94,104,246
Illinois	14,571,322	51,632,311	4,855,018	3,352	22,826,205	93,888,208
Florida	6,871,933	26,652,814	8,658,284	28,082,391	19,936,191	90,201,613
Pennsylvania	12,749,488	28,281,895	38,518,181	0	1,704,533	81,254,097
Indiana	18,459,603	38,543,515	2,380,612	1,262,661	17,262,545	77,908,936
North Carolina	9,882,961	42,945,687	6,460,601	29,100	18,470,366	77,788,715
Alabama	13,464,216	48,948,900	4,761,413	10	10,501,014	77,675,553
Mississippi	8,608,980	29,873,931	11,955,081	8,544,641	6,109,545	65,092,178
Georgia	6,784,264	41,948,148	7,181,118	0	3,147,663	59,061,193
Missouri	7,656,554	26,203,701	2,947,392	0	20,171,801	56,979,448
Michigan	8,119,677	37,078,391	743,122	5,596,855	2,659,932	54,197,977
Virginia	10,374,721	37,127,183	3,861,671	0	1,430,930	52,794,505
South Carolina	7,134,769	34,966,599	3,051,895	0	2,199,060	47,352,323
Montana	691,368	3,888,562	97,172	0	37,719,659	42,396,761
New Mexico	1,141,265	1,314,117	8,050	0	39,232,703	41,696,135
Kentucky	9,764,243	24,952,397	669,456	0	2,883,792	38,269,888
California	10,591,660	19,961,918	4,275,713	414,781	1,294,072	36,538,144
Arkansas	6,309,408	19,640,015	1,801,109	1,463,498	3,867,744	33,081,774
Arizona	6,291,657	2,786,178	4,866	6	22,116,264	31,198,971
New York	5,410,799	19,087,459	4,949,332	500	1,328,607	30,776,697
Wisconsin	4,519,506	21,481,833	3,257,621	0	1,503,592	30,762,552
Iowa	5,323,546	19,246,177	2,616,551	0	1,764,162	28,950,436
Washington	4,252,501	17,397,285	2,803,244	0	342,060	24,795,090
Oregon	3,664,194	13,054,428	4,272,374	0	2,908,884	23,899,880
Kansas	4,820,052	15,378,998	571,315	996,103	1,055,273	22,821,741
Oklahoma	4,957,060	13,585,291	719,105	1,724,679	731,511	21,717,646
West Virginia	3,812,409	10,497,511	6,787,566	0	71,656	21,169,142
Minnesota	3,265,627	13,744,427	352,363	0	250,591	17,613,008
Idaho	1,721,249	3,637,294	1,128,221	0	11,015,894	17,502,658
New Jersey	3,469,148	6,148,127	5,320,764	2	953,542	15,891,583
Maryland	1,434,771	6,752,867	2,082,618	1	2,647,385	12,917,642
Wyoming	880,208	1,416,706	7,485	6,820,755	224,703	9,349,857
Nebraska	2,254,918	5,167,814	543,519	0	610,238	8,576,489
Maine	1,047,224	5,618,175	1,028,578	0	356,123	8,050,100
Puerto Rico	3,185,860	3,983,971	17,529	0	4,772	7,192,132
Connecticut	2,360,983	3,531,216	781,453	0	38,631	6,712,283
Massachusetts	1,979,531	3,757,748	49,480	0	32,153	5,818,912

Table 11. TRI On-site Releases by State, 1997 (Ordered by Total On-site Releases) *(continued)*

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Alaska	521,559	3,758,097	333,613	430	1,948	4,615,647
Colorado	1,212,687	2,224,068	928,029	5	104,936	4,469,725
Nevada	526,249	1,169,467	0	0	2,723,511	4,419,227
South Dakota	761,389	1,527,931	1,800,093	0	6,474	4,095,887
Delaware	549,034	2,382,288	747,709	0	317,103	3,996,134
New Hampshire	291,981	1,976,478	115,145	0	216,025	2,599,629
North Dakota	402,898	1,544,065	439,714	0	2,463	2,389,140
Rhode Island	860,965	942,222	2,177	0	2,094	1,807,458
Virgin Islands	977,512	423,886	25,723	0	1,468	1,428,589
Hawaii	207,891	202,092	2,119	25,750	6,188	444,040
Vermont	71,633	130,117	189,172	0	262	391,184
American Samoa	7,000	0	0	0	0	7,000
District of Columbia	3,300	10	5	0	3,300	6,615
Guam	0	0	0	0	0	0
Total	**318,148,917**	**1,018,451,789**	**222,302,322**	**221,732,690**	**350,551,945**	**2,131,187,663**

Table 12. TRI On-site and Off-site Releases by State, 1996 (Ordered by Total Releases)

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	Pounds
Texas	49,893,970	76,735,281	20,172,654	92,010,403	15,094,154	253,906,462	13,764,035	267,670,497
Louisiana	15,703,337	69,155,834	38,371,781	58,873,862	5,718,008	187,822,822	2,455,926	190,278,748
Ohio	20,461,995	50,565,720	6,170,145	13,680,825	28,337,753	119,216,438	34,427,526	153,643,964
Pennsylvania	14,654,136	28,083,702	22,567,073	0	2,550,926	67,855,837	52,533,621	120,389,458
Illinois	16,541,808	52,526,850	5,107,323	771	22,448,010	96,624,762	18,706,074	115,330,836
Indiana	21,136,030	43,333,733	2,518,478	1,174,432	8,148,644	76,311,317	36,506,103	112,817,420
Tennessee	15,981,728	69,260,767	1,931,928	2,256,427	5,604,656	95,035,506	11,978,594	107,014,100
Alabama	14,723,182	64,588,796	3,508,225	10	7,368,171	90,188,384	13,143,659	103,332,043
Michigan	9,788,338	39,924,285	922,692	6,617,818	3,707,506	60,960,639	33,925,030	94,885,669
North Carolina	11,395,981	50,748,206	6,354,363	0	18,666,805	87,165,355	7,712,990	94,878,345
Florida	6,618,518	25,759,997	792,036	23,591,632	21,425,580	78,187,763	10,213,691	88,401,454
Utah	2,176,787	66,865,723	1,337,606	0	12,510,742	82,890,858	5,227,160	88,118,018
Georgia	7,444,647	40,228,234	6,880,133	0	2,437,286	56,990,300	5,201,767	62,192,067
Missouri	8,512,566	27,371,711	3,124,865	0	16,825,094	55,834,236	4,146,514	59,980,750
Virginia	10,558,984	40,109,176	4,743,512	10	1,311,265	56,722,947	2,133,857	58,856,804
South Carolina	8,244,484	38,590,710	2,618,770	0	859,447	50,313,411	8,039,859	58,353,270
Mississippi	10,181,839	30,547,299	9,282,226	77,131	5,667,783	55,756,278	2,451,031	58,207,309
California	12,379,594	26,463,883	4,493,158	752,529	1,083,457	45,172,621	8,616,081	53,788,702
Kentucky	8,247,494	29,932,459	1,468,481	0	1,979,880	41,628,314	8,346,460	49,974,774
Montana	882,327	3,149,626	91,808	0	44,362,523	48,486,284	34,193	48,520,477
Arizona	6,091,149	3,104,413	4,828	5	37,802,418	47,002,813	546,437	47,549,250
Wisconsin	4,719,455	22,191,098	2,940,210	0	637,415	30,488,178	14,236,260	44,724,438
New Mexico	702,574	1,277,800	16,419	0	42,277,762	44,274,555	72,986	44,347,541
Arkansas	7,979,018	20,965,858	1,815,089	1,750,002	1,274,199	33,784,166	8,362,732	42,146,898
New York	6,135,874	20,583,435	4,510,212	512	1,150,684	32,380,717	5,573,715	37,954,432
Iowa	5,572,177	23,056,410	2,752,444	0	1,548,448	32,929,479	2,478,340	35,407,819
Washington	4,816,744	18,579,348	2,958,271	0	139,238	26,493,601	2,870,749	29,364,350
West Virginia	4,301,059	12,652,451	8,352,613	0	521,958	25,828,081	3,505,118	29,333,199
Oregon	4,446,592	13,301,934	2,620,528	0	2,460,887	22,829,941	5,883,076	28,713,017
Kansas	5,660,871	14,802,039	411,678	1,049,098	941,276	22,864,962	3,933,576	26,798,538
Oklahoma	5,065,090	16,246,428	567,187	1,009,656	131,453	23,019,814	3,526,693	26,546,507
Minnesota	3,286,773	16,446,216	171,075	0	82,927	19,986,991	2,088,169	22,075,160
New Jersey	3,876,855	6,184,852	4,920,901	4	621,208	15,603,820	3,303,501	18,907,321
Idaho	1,615,732	3,223,382	1,039,998	0	12,328,871	18,207,983	102,028	18,310,011
Maryland	1,698,193	6,880,061	1,895,215	0	1,920,174	12,393,643	942,796	13,336,439
Nebraska	2,462,278	5,732,035	319,530	0	568,617	9,082,460	3,880,105	12,962,565
Wyoming	949,964	2,171,508	9,406	6,438,555	189,414	9,758,847	31,277	9,790,124
Maine	1,061,672	6,381,538	593,680	0	192,913	8,229,803	1,401,482	9,631,285
Connecticut	2,750,495	4,306,235	695,722	0	59,261	7,811,713	1,337,944	9,149,657
Puerto Rico	3,792,608	4,368,737	225,787	0	7,595	8,394,727	625,073	9,019,800
Massachusetts	2,458,513	4,322,031	81,840	0	15,944	6,878,328	1,227,187	8,105,515

Table 12. TRI On-site and Off-site Releases by State, 1996 (Ordered by Total Releases) *(continued)*

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	Pounds
Alaska	444,665	5,433,523	1,024,160	420	6,015	6,908,783	0	6,908,783
Colorado	1,130,717	2,424,003	975,045	0	105,659	4,635,424	655,432	5,290,856
Delaware	723,334	2,644,140	887,274	0	42,299	4,297,047	182,250	4,479,297
Nevada	328,799	1,056,816	0	0	2,334,264	3,719,879	78,827	3,798,706
South Dakota	524,851	1,167,994	1,900,182	0	1,008	3,594,035	137,637	3,731,672
New Hampshire	482,103	1,847,414	105,153	0	188,345	2,623,015	343,624	2,966,639
Rhode Island	929,850	1,103,162	8,748	0	10,538	2,052,298	350,126	2,402,424
North Dakota	398,199	1,605,732	317,633	0	758	2,322,322	3,490	2,325,812
Virgin Islands	961,406	506,479	31,720	0	6,526	1,506,131	12	1,506,143
Hawaii	318,432	178,076	3,265	33,209	3,290	536,272	3,995	540,267
Vermont	103,009	195,696	123,064	0	1,601	423,370	77,947	501,317
American Samoa	10,500	0	0	0	0	10,500	0	10,500
District of Columbia	3,900	10	300	0	5,000	9,210	250	9,460
Guam	0	0	3,000	0	0	3,000	0	3,000
Total	**351,331,196**	**1,118,882,846**	**184,739,434**	**209,317,311**	**333,685,655**	**2,197,956,442**	**347,327,005**	**2,545,283,447**

Table 13. TRI On-site Releases by State, 1996 (Ordered by Total On-site Releases)

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Texas	49,893,970	76,735,281	20,172,654	92,010,403	15,094,154	253,906,462
Louisiana	15,703,337	69,155,834	38,371,781	58,873,862	5,718,008	187,822,822
Ohio	20,461,995	50,565,720	6,170,145	13,680,825	28,337,753	119,216,438
Illinois	16,541,808	52,526,850	5,107,323	771	22,448,010	96,624,762
Tennessee	15,981,728	69,260,767	1,931,928	2,256,427	5,604,656	95,035,506
Alabama	14,723,182	64,588,796	3,508,225	10	7,368,171	90,188,384
North Carolina	11,395,981	50,748,206	6,354,363	0	18,666,805	87,165,355
Utah	2,176,787	66,865,723	1,337,606	0	12,510,742	82,890,858
Florida	6,618,518	25,759,997	792,036	23,591,632	21,425,580	78,187,763
Indiana	21,136,030	43,333,733	2,518,478	1,174,432	8,148,644	76,311,317
Pennsylvania	14,654,136	28,083,702	22,567,073	0	2,550,926	67,855,837
Michigan	9,788,338	39,924,285	922,692	6,617,818	3,707,506	60,960,639
Georgia	7,444,647	40,228,234	6,880,133	0	2,437,286	56,990,300
Virginia	10,558,984	40,109,176	4,743,512	10	1,311,265	56,722,947
Missouri	8,512,566	27,371,711	3,124,865	0	16,825,094	55,834,236
Mississippi	10,181,839	30,547,299	9,282,226	77,131	5,667,783	55,756,278
South Carolina	8,244,484	38,590,710	2,618,770	0	859,447	50,313,411
Montana	882,327	3,149,626	91,808	0	44,362,523	48,486,284
Arizona	6,091,149	3,104,413	4,828	5	37,802,418	47,002,813
California	12,379,594	26,463,883	4,493,158	752,529	1,083,457	45,172,621
New Mexico	702,574	1,277,800	16,419	0	42,277,762	44,274,555
Kentucky	8,247,494	29,932,459	1,468,481	0	1,979,880	41,628,314
Arkansas	7,979,018	20,965,858	1,815,089	1,750,002	1,274,199	33,784,166
Iowa	5,572,177	23,056,410	2,752,444	0	1,548,448	32,929,479
New York	6,135,874	20,583,435	4,510,212	512	1,150,684	32,380,717
Wisconsin	4,719,455	22,191,098	2,940,210	0	637,415	30,488,178
Washington	4,816,744	18,579,348	2,958,271	0	139,238	26,493,601
West Virginia	4,301,059	12,652,451	8,352,613	0	521,958	25,828,081
Oklahoma	5,065,090	16,246,428	567,187	1,009,656	131,453	23,019,814
Kansas	5,660,871	14,802,039	411,678	1,049,098	941,276	22,864,962
Oregon	4,446,592	13,301,934	2,620,528	0	2,460,887	22,829,941
Minnesota	3,286,773	16,446,216	171,075	0	82,927	19,986,991
Idaho	1,615,732	3,223,382	1,039,998	0	12,328,871	18,207,983
New Jersey	3,876,855	6,184,852	4,920,901	4	621,208	15,603,820
Maryland	1,698,193	6,880,061	1,895,215	0	1,920,174	12,393,643
Wyoming	949,964	2,171,508	9,406	6,438,555	189,414	9,758,847
Nebraska	2,462,278	5,732,035	319,530	0	568,617	9,082,460
Puerto Rico	3,792,608	4,368,737	225,787	0	7,595	8,394,727
Maine	1,061,672	6,381,538	593,680	0	192,913	8,229,803
Connecticut	2,750,495	4,306,235	695,722	0	59,261	7,811,713
Alaska	444,665	5,433,523	1,024,160	420	6,015	6,908,783

Table 13. TRI On-site Releases by State, 1996 (Ordered by Total On-site Releases) *(continued)*

State	On-site Releases: Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds
Massachusetts	2,458,513	4,322,031	81,840	0	15,944	6,878,328
Colorado	1,130,717	2,424,003	975,045	0	105,659	4,635,424
Delaware	723,334	2,644,140	887,274	0	42,299	4,297,047
Nevada	328,799	1,056,816	0	0	2,334,264	3,719,879
South Dakota	524,851	1,167,994	1,900,182	0	1,008	3,594,035
New Hampshire	482,103	1,847,414	105,153	0	188,345	2,623,015
North Dakota	398,199	1,605,732	317,633	0	758	2,322,322
Rhode Island	929,850	1,103,162	8,748	0	10,538	2,052,298
Virgin Islands	961,406	506,479	31,720	0	6,526	1,506,131
Hawaii	318,432	178,076	3,265	33,209	3,290	536,272
Vermont	103,009	195,696	123,064	0	1,601	423,370
American Samoa	10,500	0	0	0	0	10,500
District of Columbia	3,900	10	300	0	5,000	9,210
Guam	0	0	3,000	0	0	3,000
Total	**351,331,196**	**1,118,882,846**	**184,739,434**	**209,317,311**	**333,685,655**	**2,197,956,442**

Table 14. TRI On-site and Off-site Releases by State, 1995 (Ordered by Total Releases)

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	Pounds
Texas	55,830,369	79,803,305	23,176,589	118,978,229	13,120,198	290,908,690	14,733,110	305,641,800
Louisiana	16,237,229	69,090,432	29,771,080	57,902,425	4,777,718	177,778,884	2,531,193	180,310,077
Ohio	20,165,460	54,735,666	5,747,558	14,469,718	30,217,291	125,335,693	31,924,479	157,260,172
Pennsylvania	18,187,368	30,292,277	20,395,100	0	1,856,425	70,731,170	58,965,967	129,697,137
Illinois	17,025,844	56,208,419	5,944,412	365	23,001,100	102,180,140	18,744,825	120,924,965
Alabama	14,720,544	76,553,368	3,566,619	16	7,381,709	102,222,256	12,780,811	115,003,067
Indiana	25,017,519	48,025,831	4,242,874	874,903	6,939,577	85,100,704	29,865,349	114,966,053
Tennessee	20,280,236	75,289,670	1,793,228	1,174,570	5,495,368	104,033,072	6,947,424	110,980,496
Michigan	12,392,618	45,004,334	784,023	9,556,827	4,050,410	71,788,212	31,132,211	102,920,423
North Carolina	13,197,271	54,990,092	6,656,701	0	17,749,674	92,593,738	3,952,481	96,546,219
Florida	8,685,938	24,175,335	883,494	18,748,589	25,805,966	78,299,322	3,225,886	81,525,208
Utah	2,698,315	66,519,095	1,122,863	0	8,611,903	78,952,176	901,244	79,853,420
Mississippi	12,480,222	32,605,882	9,965,535	107,276	4,438,524	59,597,439	1,836,646	61,434,085
Missouri	10,816,092	28,624,230	3,392,991	0	14,586,318	57,419,631	3,735,650	61,155,281
Georgia	7,418,036	41,111,284	6,602,654	0	1,572,312	56,704,286	4,338,329	61,042,615
Virginia	11,095,402	39,651,266	5,632,970	0	1,183,630	57,563,268	2,388,879	59,952,147
South Carolina	10,755,176	41,653,016	1,772,916	0	758,434	54,939,542	4,478,436	59,417,978
California	15,387,421	24,063,586	3,401,675	489,974	2,922,269	46,264,925	10,047,657	56,312,582
Kentucky	9,043,051	31,906,988	436,952	0	801,882	42,188,873	6,350,882	48,539,755
Wisconsin	5,124,407	23,869,569	3,775,332	5	981,256	33,750,569	13,306,289	47,056,858
New Mexico	721,196	1,092,375	4,290	0	43,125,150	44,943,011	89,566	45,032,577
Montana	1,199,947	3,174,648	96,659	0	39,420,586	43,891,840	39,203	43,931,043
New York	8,123,918	22,158,334	6,182,959	5	1,217,961	37,683,177	5,807,566	43,490,743
Arizona	2,840,415	3,422,258	4,829	14	33,677,402	39,944,918	548,035	40,492,953
Iowa	5,895,576	24,947,978	3,783,543	0	1,383,026	36,010,123	2,918,441	38,928,564
Arkansas	8,064,592	22,772,052	1,274,722	2,637,068	1,339,054	36,087,488	2,655,336	38,742,824
West Virginia	5,302,806	14,206,045	8,973,891	1,000	315,339	28,799,081	3,772,006	32,571,087
Oklahoma	5,052,997	18,687,012	692,976	1,356,438	666,180	26,455,603	3,590,382	30,045,985
Washington	4,387,749	20,282,687	3,282,844	0	137,316	28,090,596	1,902,326	29,992,922
Kansas	5,093,956	14,521,253	431,376	1,675,109	1,303,176	23,024,870	6,139,295	29,164,165
Oregon	4,222,806	14,608,222	2,806,544	0	1,647,519	23,285,091	5,260,569	28,545,660
Minnesota	3,841,358	17,958,663	462,054	1	525,391	22,787,467	1,679,690	24,467,157
New Jersey	5,349,473	7,146,937	2,515,508	5	730,990	15,742,913	3,481,749	19,224,662
Maryland	2,280,731	6,627,975	1,805,412	0	2,577,678	13,291,796	4,979,622	18,271,418
Idaho	868,594	3,830,232	857,246	0	10,521,664	16,077,736	42,485	16,120,221
Nebraska	2,694,390	7,592,041	321,354	0	663,738	11,271,523	3,893,308	15,164,831
Connecticut	2,970,210	5,068,666	1,783,502	0	95,110	9,917,488	1,942,929	11,860,417
Maine	1,190,010	7,665,855	589,531	0	307,585	9,752,981	1,744,441	11,497,422
Wyoming	970,347	1,946,559	8,984	8,197,366	223,367	11,346,623	7,919	11,354,542
Massachusetts	2,922,751	5,349,153	116,210	0	32,224	8,420,338	1,670,744	10,091,082
Puerto Rico	4,366,392	5,213,184	22,262	0	4,456	9,606,294	445,219	10,051,513

Table 14. TRI On-site and Off-site Releases by State, 1995 (Ordered by Total Releases) *(continued)*

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	Pounds
Alaska	462,953	4,936,631	950,617	188	483,911	6,834,300	6,030	6,840,330
Delaware	969,870	3,233,131	1,130,548	0	28,512	5,362,061	158,257	5,520,318
Colorado	1,271,799	2,917,608	682,651	0	121,314	4,993,372	314,095	5,307,467
South Dakota	696,304	1,285,200	2,001,487	0	100,098	4,083,089	103,409	4,186,498
Nevada	669,062	966,149	0	0	2,209,741	3,844,952	77,070	3,922,022
Rhode Island	1,241,701	1,574,079	48,486	0	40	2,864,306	545,020	3,409,326
North Dakota	471,377	2,061,596	374,864	0	1,275	2,909,112	23,813	2,932,925
New Hampshire	533,816	2,019,195	112,083	0	113,865	2,778,959	144,945	2,923,904
Virgin Islands	974,700	479,699	36,392	0	2,461	1,493,252	5	1,493,257
Vermont	215,880	331,262	89,884	0	2,924	639,950	52,901	692,851
Hawaii	265,289	199,273	3,510	24,306	545	492,923	163,769	656,692
District of Columbia	10,200	260	255	0	19,000	29,715	27,255	56,970
American Samoa	5,300	0	0	0	0	5,300	0	5,300
Guam	0	0	3,100	0	0	3,100	0	3,100
Total	**392,706,983**	**1,192,449,857**	**180,516,139**	**236,194,397**	**319,250,562**	**2,321,117,938**	**316,415,148**	**2,637,533,086**

Table 15. TRI On-site Releases by State, 1995 (Ordered by Total On-site Releases)

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Texas	55,830,369	79,803,305	23,176,589	118,978,229	13,120,198	290,908,690
Louisiana	16,237,229	69,090,432	29,771,080	57,902,425	4,777,718	177,778,884
Ohio	20,165,460	54,735,666	5,747,558	14,469,718	30,217,291	125,335,693
Tennessee	20,280,236	75,289,670	1,793,228	1,174,570	5,495,368	104,033,072
Alabama	14,720,544	76,553,368	3,566,619	16	7,381,709	102,222,256
Illinois	17,025,844	56,208,419	5,944,412	365	23,001,100	102,180,140
North Carolina	13,197,271	54,990,092	6,656,701	0	17,749,674	92,593,738
Indiana	25,017,519	48,025,831	4,242,874	874,903	6,939,577	85,100,704
Utah	2,698,315	66,519,095	1,122,863	0	8,611,903	78,952,176
Florida	8,685,938	24,175,335	883,494	18,748,589	25,805,966	78,299,322
Michigan	12,392,618	45,004,334	784,023	9,556,827	4,050,410	71,788,212
Pennsylvania	18,187,368	30,292,277	20,395,100	0	1,856,425	70,731,170
Mississippi	12,480,222	32,605,882	9,965,535	107,276	4,438,524	59,597,439
Virginia	11,095,402	39,651,266	5,632,970	0	1,183,630	57,563,268
Missouri	10,816,092	28,624,230	3,392,991	0	14,586,318	57,419,631
Georgia	7,418,036	41,111,284	6,602,654	0	1,572,312	56,704,286
South Carolina	10,755,176	41,653,016	1,772,916	0	758,434	54,939,542
California	15,387,421	24,063,586	3,401,675	489,974	2,922,269	46,264,925
New Mexico	721,196	1,092,375	4,290	0	43,125,150	44,943,011
Montana	1,199,947	3,174,648	96,659	0	39,420,586	43,891,840
Kentucky	9,043,051	31,906,988	436,952	0	801,882	42,188,873
Arizona	2,840,415	3,422,258	4,829	14	33,677,402	39,944,918
New York	8,123,918	22,158,334	6,182,959	5	1,217,961	37,683,177
Arkansas	8,064,592	22,772,052	1,274,722	2,637,068	1,339,054	36,087,488
Iowa	5,895,576	24,947,978	3,783,543	0	1,383,026	36,010,123
Wisconsin	5,124,407	23,869,569	3,775,332	5	981,256	33,750,569
West Virginia	5,302,806	14,206,045	8,973,891	1,000	315,339	28,799,081
Washington	4,387,749	20,282,687	3,282,844	0	137,316	28,090,596
Oklahoma	5,052,997	18,687,012	692,976	1,356,438	666,180	26,455,603
Oregon	4,222,806	14,608,222	2,806,544	0	1,647,519	23,285,091
Kansas	5,093,956	14,521,253	431,376	1,675,109	1,303,176	23,024,870
Minnesota	3,841,358	17,958,663	462,054	1	525,391	22,787,467
Idaho	868,594	3,830,232	857,246	0	10,521,664	16,077,736
New Jersey	5,349,473	7,146,937	2,515,508	5	730,990	15,742,913
Maryland	2,280,731	6,627,975	1,805,412	0	2,577,678	13,291,796
Wyoming	970,347	1,946,559	8,984	8,197,366	223,367	11,346,623
Nebraska	2,694,390	7,592,041	321,354	0	663,738	11,271,523
Connecticut	2,970,210	5,068,666	1,783,502	0	95,110	9,917,488
Maine	1,190,010	7,665,855	589,531	0	307,585	9,752,981
Puerto Rico	4,366,392	5,213,184	22,262	0	4,456	9,606,294
Massachusetts	2,922,751	5,349,153	116,210	0	32,224	8,420,338

Table 15. TRI On-site Releases by State, 1995 (Ordered by Total On-site Releases) *(continued)*

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Alaska	462,953	4,936,631	950,617	188	483,911	6,834,300
Delaware	969,870	3,233,131	1,130,548	0	28,512	5,362,061
Colorado	1,271,799	2,917,608	682,651	0	121,314	4,993,372
South Dakota	696,304	1,285,200	2,001,487	0	100,098	4,083,089
Nevada	669,062	966,149	0	0	2,209,741	3,844,952
North Dakota	471,377	2,061,596	374,864	0	1,275	2,909,112
Rhode Island	1,241,701	1,574,079	48,486	0	40	2,864,306
New Hampshire	533,816	2,019,195	112,083	0	113,865	2,778,959
Virgin Islands	974,700	479,699	36,392	0	2,461	1,493,252
Vermont	215,880	331,262	89,884	0	2,924	639,950
Hawaii	265,289	199,273	3,510	24,306	545	492,923
District of Columbia	10,200	260	255	0	19,000	29,715
American Samoa	5,300	0	0	0	0	5,300
Guam	0	0	3,100	0	0	3,100
Total	**392,706,983**	**1,192,449,857**	**180,516,139**	**236,194,397**	**319,250,562**	**2,321,117,938**

Table 16. TRI Total On-site and Off-site Releases by State, 1995–1998, (Ordered by Total Releases 1998)

State	Total On-site and Off-site Releases			
	1995 Pounds	1996 Pounds	1997 Pounds	1998* Pounds
Texas	305,641,800	267,670,497	262,400,508	262,681,842
Louisiana	180,310,077	190,278,748	187,808,271	175,603,883
Ohio	157,260,172	153,643,964	155,865,505	153,558,752
Pennsylvania	129,697,137	120,389,458	144,947,172	145,737,350
Indiana	114,966,053	112,817,420	122,643,217	120,941,009
Illinois	120,924,965	115,330,836	127,158,423	116,483,095
Utah	79,853,420	88,118,018	103,895,386	106,252,499
Tennessee	110,980,496	107,014,100	106,744,974	94,907,549
Alabama	115,003,067	103,332,043	94,777,907	89,519,922
Michigan	102,920,423	94,885,669	86,381,065	83,648,982
Florida	81,525,208	88,401,454	97,507,175	78,499,582
North Carolina	96,546,219	94,878,345	85,758,466	76,800,683
Georgia	61,042,615	62,192,067	72,830,528	64,867,232
Mississippi	61,434,085	58,207,309	66,823,769	60,520,702
South Carolina	59,417,978	58,353,270	56,823,857	59,695,616
Missouri	61,155,281	59,980,750	61,742,224	57,045,614
Virginia	59,952,147	58,856,804	58,378,853	56,848,332
Arizona	40,492,953	47,549,250	31,641,811	54,346,031
Montana	43,931,043	48,520,477	43,621,812	51,377,382
Arkansas	38,742,824	42,146,898	59,618,614	50,743,995
Wisconsin	47,056,858	44,724,438	44,877,440	43,780,692
California	56,312,582	53,788,702	44,677,505	42,580,329
Kentucky	48,539,755	49,974,774	46,844,950	41,033,286
Iowa	38,928,564	35,407,819	34,194,004	40,100,994
New York	43,490,743	37,954,432	39,491,267	35,489,850
Oregon	28,545,660	28,713,017	30,492,618	33,180,800
Washington	29,992,922	29,364,350	32,185,569	32,108,843
Kansas	29,164,165	26,798,538	26,831,425	29,137,835
West Virginia	32,571,087	29,333,199	25,310,249	26,185,485
New Mexico	45,032,577	44,347,541	41,779,667	24,827,806
Oklahoma	30,045,985	26,546,507	24,886,232	24,397,829
Idaho	16,120,221	18,310,011	17,761,541	22,750,923
New Jersey	19,224,662	18,907,321	20,546,909	19,959,412
Minnesota	24,467,157	22,075,160	20,201,397	19,870,654
Nebraska	15,164,831	12,962,565	18,128,326	16,186,981
Maryland	18,271,418	13,336,439	14,106,599	13,251,453
Maine	11,497,422	9,631,285	9,973,645	9,636,269
Wyoming	11,354,542	9,790,124	9,357,659	9,437,664
Connecticut	11,860,417	9,149,657	10,238,786	7,604,324
Puerto Rico	10,051,513	9,019,800	7,959,917	7,288,665

**Includes amounts for original industries only for 1998. One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*

Table 16. TRI Total On-site and Off-site Releases by State, 1995–1998, (Ordered by Total Releases 1998) *(continued)*

State	Total On-site and Off-site Releases			
	1995 Pounds	**1996** Pounds	**1997** Pounds	**1998*** Pounds
Massachusetts	10,091,082	8,105,515	7,178,480	7,278,796
Delaware	5,520,318	4,479,297	4,180,960	5,503,568
Colorado	5,307,467	5,290,856	5,152,559	5,473,006
Nevada	3,922,022	3,798,706	4,444,713	4,204,845
South Dakota	4,186,498	3,731,672	4,218,481	3,251,231
New Hampshire	2,923,904	2,966,639	2,872,430	2,970,927
North Dakota	2,932,925	2,325,812	2,422,425	2,449,976
Alaska	6,840,330	6,908,783	4,617,154	1,948,559
Rhode Island	3,409,326	2,402,424	2,207,449	1,751,380
Virgin Islands	1,493,257	1,506,143	1,428,697	1,055,561
Hawaii	656,692	540,267	452,405	435,831
Vermont	692,851	501,317	567,574	417,357
District of Columbia	56,970	9,460	6,615	11,511
American Samoa	5,300	10,500	7,000	8,750
Guam	3,100	3,000	0	0
Total	**2,637,533,086**	**2,545,283,447**	**2,586,972,184**	**36,761,298**

**Includes amounts for original industries only for 1998. One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*

Table 17. TRI Total On-site and Off-site Releases by State, 1988, 1995–1998, (Ordered by Total Releases 1998)

State	Total On-site and Off-site Releases				
	1988 Pounds	1995 Pounds	1996 Pounds	1997 Pounds	1998* Pounds
Texas	322,558,783	208,978,359	186,249,091	179,274,943	169,996,600
Ohio	206,027,514	126,504,425	123,169,541	127,043,535	124,018,172
Louisiana	250,924,798	125,881,755	135,400,374	131,501,530	120,503,130
Indiana	185,248,438	93,961,286	94,244,626	105,254,667	105,549,492
Utah	123,845,400	69,401,025	77,730,842	96,470,201	99,492,858
Pennsylvania	136,473,174	97,762,531	88,165,538	96,910,470	89,865,562
Illinois	141,237,027	85,812,365	82,306,834	92,037,911	83,581,362
Tennessee	127,004,563	93,964,293	90,647,927	89,934,912	78,245,857
Alabama	111,028,538	100,913,410	89,890,659	80,129,125	75,875,560
Michigan	143,507,412	89,864,306	81,672,921	74,642,680	73,924,271
North Carolina	132,089,323	73,340,406	72,724,754	63,683,802	56,574,494
Arizona*	66,280,900	38,298,065	45,840,805	30,584,971	53,496,957
Montana	35,630,465	42,644,621	47,219,566	42,565,595	50,530,744
South Carolina	66,161,727	49,054,562	48,554,629	47,833,188	49,997,982
Missouri	91,212,847	50,631,807	50,092,779	53,029,567	48,645,483
Georgia	86,694,993	41,262,176	41,835,078	51,945,469	45,239,691
Florida	61,723,562	52,835,932	53,944,608	57,253,531	41,651,398
Mississippi	59,669,849	40,246,039	40,625,179	45,708,043	40,763,029
Virginia	112,871,474	41,023,826	40,177,272	40,867,551	39,526,438
Arkansas	41,209,387	25,821,435	30,380,514	49,085,206	39,510,512
Wisconsin	62,526,731	34,798,910	33,105,187	33,842,049	33,756,270
Kentucky	66,948,777	34,082,658	33,251,579	35,269,358	31,078,308
Oregon	21,648,764	22,313,626	23,547,717	24,197,432	28,039,036
California	110,756,053	38,164,342	35,414,101	28,263,902	27,086,499
Iowa	43,056,771	22,058,479	19,117,526	19,866,112	24,847,373
Washington	30,678,806	22,655,549	22,270,714	24,613,732	24,151,925
New Mexico	30,427,754	43,436,083	42,722,158	40,093,247	23,788,269
New York	101,432,234	31,370,206	27,835,708	28,650,089	21,965,597
Kansas	30,569,025	17,835,085	17,526,044	18,939,538	20,770,839
West Virginia	39,676,284	19,962,084	17,657,607	15,287,406	16,325,841
Minnesota	56,097,889	18,409,828	17,091,329	15,653,204	15,017,469
Oklahoma	30,594,900	16,086,020	15,320,406	15,219,915	13,905,499
Idaho	7,354,669	12,081,793	13,868,276	12,936,773	13,313,832
New Jersey	48,474,308	14,090,722	12,315,000	13,559,774	11,492,736
Nebraska	17,123,549	11,353,630	8,817,422	13,891,155	10,218,743
Maryland	20,258,825	12,040,124	9,568,830	9,908,106	8,753,507
Puerto Rico	12,869,935	8,877,571	7,942,240	7,192,393	6,694,121
Maine	15,560,704	6,958,468	5,608,380	6,368,798	6,576,681
Massachusetts	32,303,089	8,770,906	7,017,993	6,285,331	6,540,231
Connecticut	38,696,367	9,315,681	7,290,376	8,489,475	6,023,415

**Includes amounts for original industries only for 1998. One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*

Table 17. TRI Total On-site and Off-site Releases by State, 1988, 1995–1998, (Ordered by Total Releases 1998) *(continued)*

State	Total On-site and Off-site Releases				
	1988 Pounds	**1995** Pounds	**1996** Pounds	**1997** Pounds	**1998*** Pounds
Nevada	2,357,318	3,379,331	3,315,281	4,017,511	3,671,941
Colorado	15,743,170	3,498,678	3,204,035	3,131,147	3,569,678
New Hampshire	13,975,720	2,250,006	2,247,511	2,368,056	2,346,947
Delaware	8,793,803	2,982,689	2,085,357	2,023,620	2,283,690
Rhode Island	7,821,230	3,181,430	2,252,709	2,046,266	1,607,134
South Dakota	2,393,747	1,905,217	1,401,061	1,323,017	1,287,592
North Dakota	1,195,540	1,206,639	773,687	794,419	1,045,336
Wyoming	16,740,621	1,324,584	1,358,830	1,330,817	950,359
Virgin Islands	2,592,912	1,235,660	1,232,275	1,184,171	887,525
Alaska	3,714,569	2,158,743	1,683,698	779,045	314,823
Hawaii	847,805	562,284	448,355	343,620	306,151
Vermont	1,750,690	562,760	344,045	346,264	208,300
District of Columbia	750	56,970	9,460	6,615	11,511
American Samoa	0	0	0	0	0
Guam	0	3,100	3,000	0	0
Total	**77,927,875**	**24,308,091**	**1,918,521,434**	**1,953,979,254**	**18,490,987**

**Includes amounts for original industries only for 1998. One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.*

STATE FACT SHEETS

1998 Toxics Release Inventory

ALABAMA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	71,034,179	58,854,650	129,888,829
Air Emissions	54,160,590	28,710,204	82,870,794
Surface Water Discharges	4,810,219	221,813	5,032,032
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	5	45,000	45,005
On-site Land Releases to RCRA Subtitle C Landfills	718,739	12,060,964	12,779,703
Other On-site Land Releases	11,344,626	17,816,669	29,161,295
Off-site Releases (Transfers Off-site to Disposal)*	17,551,050	531,935	18,082,985
Total On- and Off-site Releases	88,585,229	59,386,585	147,971,814
Recycled On-site	293,178,514	4,194,273	297,372,787
Recycled Off-site	37,396,496	262,123	37,658,619
Energy Recovery On-site	65,522,981	8,057,169	73,580,150
Energy Recovery Off-site	11,172,203	29,600,899	40,773,102
Treated On-site	284,398,610	6,461,877	290,860,487
Treated Off-site**	13,390,960	215,243	13,606,203
Quantity Released On- and Off-site***	78,418,482	59,477,146	137,895,628
Total Production-related Waste Managed	783,478,246	108,268,730	891,746,976
Total Non-production-related Waste Managed	233,142	547	233,689

Transfers Off-site for Further Waste Management/Disposal

Recycling	35,805,780	418,184	36,223,964
Energy Recovery	11,387,978	29,595,406	40,983,384
Treatment	8,822,439	228,240	9,050,679
Publicly Owned Treatment Works (POTWs)	1,232,153	8	1,232,161
Metals and Metal Compounds*	40,413	0	40,413
Non-metal TRI Chemicals**	1,191,740	8	1,191,748
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	18,445,330	535,663	18,980,993
Total Transfers Off-site for Further Waste Management/Disposal	75,693,680	30,777,501	106,471,181

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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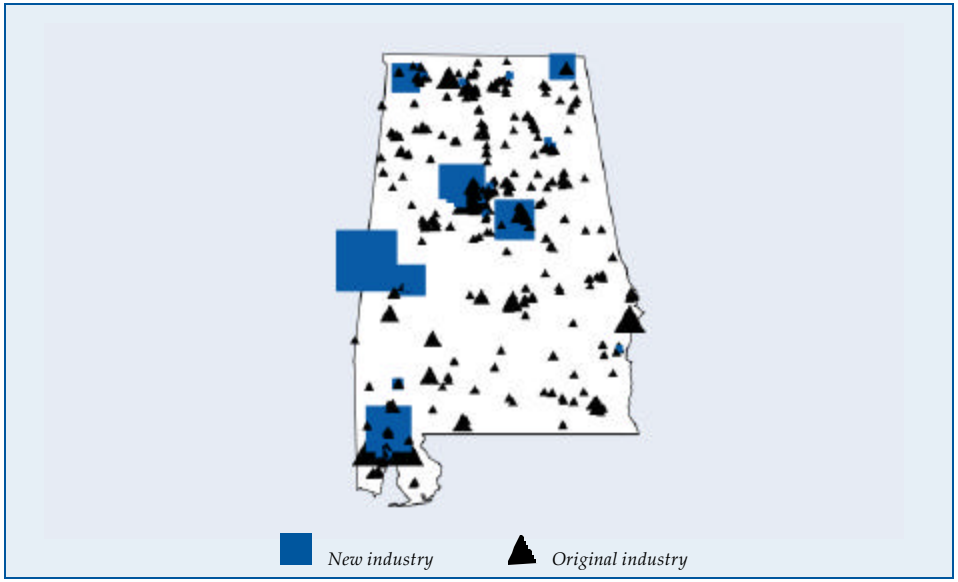
To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Alabama. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	4,351,999
Square Miles	50,750
Total Facilities	563
Total Forms	2,274
Form As	367

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	9	16	12
Pounds	88,585,229	59,386,585	147,971,814
National Rank for Total On-site Releases**			
Rank	9	16	15
Pounds	71,034,179	58,854,650	129,888,829
National Rank for Total Releases within State***			
Rank	10	16	14
Pounds	81,125,706	59,242,673	140,368,379
National Rank for Production-related Waste Managed			
Rank	11	12	12
Pounds	783,478,246	108,268,730	891,746,976

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

ALABAMA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal * Pounds	Total Releases in the State ** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	13,679,270	755,542	0	112,947	105,138	14,652,897	1,300	31,720	73,418
75-15-0	Carbon disulfide	11,395,630	2,115	0	0	0	11,397,745	0	0	0
7440-50-8	Copper	11,889	941	0	485	9,582,061	9,595,376	75,368	3,476,355	6,128,099
—	Manganese compounds	42,151	655,713	0	4,653,381	2,244,653	7,595,898	101,249	1,722,062	523,791
—	Zinc compounds	183,419	217,197	0	4,871,960	1,115,939	6,388,515	2,622,740	643,991	472,960
7664-41-7	Ammonia	2,973,902	406,149	0	14,770	53,459	3,448,280	7	23,467	29,992
—	Nitrate compounds	41,895	2,366,846	0	35,845	496,880	2,941,466	0	260,000	236,880
108-88-3	Toluene	2,783,634	2,367	0	0	62,338	2,848,339	4,774	60,613	1,725
1330-20-7	Xylene (mixed isomers)	2,476,309	1,334	0	0	78,514	2,556,157	11,254	2,137	76,377
7439-96-5	Manganese	36,343	317	0	875,462	1,608,229	2,520,351	267	1,452,455	155,774

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal * Pounds	Total Releases in the State ** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	18,159,414	0	0	0	0	18,159,414	0	0	0
—	Barium compounds	34,347	77,789	45,000	11,463,957	186,299	11,807,392	286	184,794	1,510
7664-93-9	Sulfuric acid	5,897,531	0	0	0	0	5,897,531	0	0	0
7664-39-3	Hydrogen fluoride	4,301,157	630	0	224,550	0	4,526,337	0	0	0
—	Zinc compounds	14,785	30,706	0	3,695,407	41,497	3,782,395	7,024	39,336	2,161
—	Lead compounds	4,459	1,837	0	3,529,145	21,870	3,557,311	6,066	2,516	19,355
—	Copper compounds	5,598	15,936	0	2,142,204	7,025	2,170,763	7,621	5,525	1,500
—	Arsenic compounds	5,364	51,227	0	1,446,318	79,750	1,582,659	1,720	4,685	75,065
—	Chromium compounds	6,212	2,522	0	1,519,280	29,273	1,557,287	5,813	9,088	20,185
—	Manganese compounds	9,718	36,338	0	1,278,374	114,880	1,439,310	1,627	114,880	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

ALABAMA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Acordis Cellulosic Fibers Inc., Axis, Mobile	10,662,000	16,200	0	0	0	420,000	11,098,200	0	0
USS Fairfield Works, Fairfield, Jefferson	156,789	7,594	0	0	0	5,649,401	5,813,784	2,553	0
Mead Coated Board Inc., Cottonton, Russell	3,094,550	120,918	0	0	0	636,223	3,851,691	0	0
Champion Intl. Courtland Mill, Courtland, Lawrence	2,311,965	224,247	0	0	0	396,394	2,932,606	0	0
U. S. Alliance Coosa Pines Corp., Coosa Pines, Talladega	1,975,740	135,800	0	0	0	183,440	2,294,980	0	0
Union Camp Corp., Prattville, Autauga	1,706,360	104,230	0	0	0	381,306	2,191,896	0	0
Kimberly-Clark Corp., Mobile, Mobile	1,719,190	368,540	0	0	0	0	2,087,730	77,639	0
Amoco Chemical Co., Decatur, Morgan	1,441,361	451,997	0	0	0	186,511	2,079,869	2,010	25,672
Alabama River Pulp Co. Inc., Perdue Hill, Monroe	1,128,705	237,000	0	0	0	595,120	1,960,825	0	0
Jefferson Smurfit Corp. (US), Brewton, Escambia	1,431,820	123,060	0	0	0	321,011	1,875,891	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Chemical Waste Management, Emelle, Sumter	350	0	0	0	12,060,964	0	12,061,314	5,410	161,616
Alabama Power Co. — Plant Barry, Bucks, Mobile	5,637,540	21,099	0	0	0	2,927,925	8,586,564	0	0
Alabama Power Co. — Plant Gaston, Wilsonville, Shelby	4,065,426	20,602	0	0	0	3,284,276	7,370,304	0	0
Alabama Power Co. — Plant Miller, Quinton, Jefferson	2,603,215	7,106	0	0	0	4,337,143	6,947,464	1	0
Alabama Power Co. — Plant Gorgas, Parrish, Walker	3,685,888	43,156	0	0	0	2,288,711	6,017,755	0	0
Alabama Power Co. — Plant Greene County, Forkland, Greene	4,760,319	4,687	0	0	0	601,951	5,366,957	0	0
U.S. TVA Colbert Fossil Plant, Tuscumbia, Colbert	3,379,770	42,775	0	0	0	1,435,150	4,857,695	2,550	0
U.S. TVA Widows Creek Fossil Plant, Stevenson, Jackson	2,728,300	47,250	0	0	0	1,466,005	4,241,555	103,470	500
Mobile Energy Services Co. L.L.C., Mobile, Mobile	1,067,849	0	0	0	0	0	1,067,849	260,260	0
U.S. Steel Mining Co. L.L.C. Oak Grove System, Adger, Jefferson	87	10,000	0	45,000	0	975,000	1,030,087	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

ALABAMA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Acordis Cellulosic Fibers Inc., Axis, Mobile	18,880,000	0	0	0	828,000	0	11,137,000	30,845,000	0
USS Fairfield Works, Fairfield, Jefferson	0	3,506,000	0	0	0	0	5,816,338	9,322,338	0
Mead Coated Board Inc., Cottonton, Russell	0	0	1,492,804	0	7,935,210	0	3,850,600	13,278,614	0
Champion Intl. Courtland Mill, Courtland, Lawrence	0	0	2,261,000	0	21,450,900	0	2,911,760	26,623,660	430
Macmillan Bloedel Packaging Inc. Pine Hill Ops., Pine Hill, Wilcox	0	0	27,600	0	8,058,800	0	2,398,490	10,484,890	233
U. S. Alliance Coosa Pines Corp., Coosa Pines, Talladega	233,000	0	0	0	12,191,600	0	2,296,400	14,721,000	0
Kimberly-Clark Corp., Mobile, Mobile	0	0	1,900,000	0	19,854,000	17	2,206,920	23,960,937	0
Union Camp Corp., Prattville, Autauga	0	0	669,408	0	6,696,880	0	2,193,030	9,559,318	0
Amoco Chemical Co., Decatur, Morgan	0	270,000	0	0	3,025,170	139,440	2,098,200	5,532,810	0
Alabama River Pulp Co. Inc., Perdue Hill, Monroe	0	0	0	0	13,163,000	0	1,968,105	15,131,105	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Chemical Waste Management, Emelle, Sumter	0	40,434	0	0	0	194,700	12,347,529	12,582,663	0
Alabama Power Co. — Plant Barry, Bucks, Mobile	0	0	0	0	0	0	8,586,564	8,586,564	0
Alabama Power Co. — Plant Gaston, Wilsonville, Shelby	0	0	0	0	0	0	7,370,304	7,370,304	0
Alabama Power Co. — Plant Miller, Quinton, Jefferson	0	0	0	0	0	0	6,947,465	6,947,465	0
Alabama Power Co. — Plant Gorgas, Parrish, Walker	0	0	0	0	0	0	6,017,755	6,017,755	0
Alabama Power Co. — Plant Greene County, Forkland, Greene	0	0	0	0	0	0	5,366,957	5,366,957	0
U.S. TVA Colbert Fossil Plant, Tuscumbia, Colbert	0	0	0	0	832,000	0	4,844,020	5,676,020	0
U.S. TVA Widows Creek Fossil Plant, Stevenson, Jackson	0	8,700	0	0	5,626,000	0	4,330,020	9,964,720	0
Mobile Energy Services Co. L.L.C., Mobile, Mobile	0	0	8,057,169	0	0	0	1,388,919	9,446,088	0
U.S. Steel Mining Co. L.L.C. Oak Grove System, Adger, Jefferson	36,000	0	0	0	0	0	1,000,000	1,036,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

ALASKA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	1,937,473	305,081,034	307,018,507
Air Emissions	1,838,917	1,097,072	2,935,989
Surface Water Discharges	96,428	1,335	97,763
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	256	29,024,000	29,024,256
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	1,872	274,958,627	274,960,499
Off-site Releases (Transfers Off-site to Disposal)*	286	346	632
Total On- and Off-site Releases	1,937,759	305,081,380	307,019,139
Recycled On-site	29,841	536,479	566,320
Recycled Off-site	26,770	0	26,770
Energy Recovery On-site	450,000	0	450,000
Energy Recovery Off-site	4,979	269	5,248
Treated On-site	1,535,357	50,290	1,585,647
Treated Off-site**	832	11,895	12,727
Quantity Released On- and Off-site***	1,951,419	305,800,282	307,751,701
Total Production-related Waste Managed	3,999,198	306,399,215	310,398,413
Total Non-production-related Waste Managed	7,656	33	7,689

Transfers Off-site for Further Waste Management/Disposal

Recycling	27,124	38,488	65,612
Energy Recovery	4,982	180	5,162
Treatment	196	2,671	2,867
Publicly Owned Treatment Works (POTWs)	0	5	5
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	5	5
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	11,086	351	11,437
Total Transfers Off-site for Further Waste Management/Disposal	43,388	41,695	85,083

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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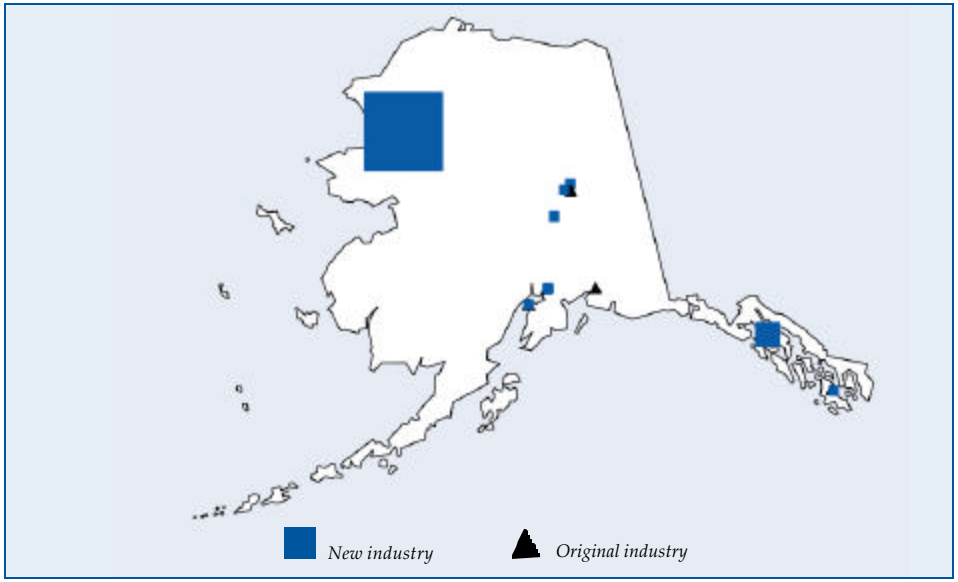

The largest marker in the state map represents the largest facility for on-site releases in the state of Alaska. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	614,010
Square Miles	570,374
Total Facilities	19
Total Forms	113
Form As	9

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	48	4	6
Pounds	1,937,759	305,081,380	307,019,139
National Rank for Total On-site Releases**			
Rank	48	4	4
Pounds	1,937,473	305,081,034	307,018,507
National Rank for Total Releases within State***			
Rank	48	4	6
Pounds	1,937,475	305,081,153	307,018,628
National Rank for Production-related Waste Managed			
Rank	51	5	29
Pounds	3,999,198	306,399,215	310,398,413

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

ALASKA

On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	1,470,578	35,058	5	0	0	1,505,641	0	0	0
67-56-1	Methanol	81,000	370	1	0	0	81,371	0	0	0
108-88-3	Toluene	75,016	0	0	282	0	75,298	0	0	0
1330-20-7	Xylene (mixed isomers)	65,583	0	0	281	32	65,896	0	0	32
7647-01-0	Hydrochloric acid	61,000	0	0	0	0	61,000	0	0	0
—	Nitrate compounds	0	46,000	250	0	0	46,250	0	0	0
71-43-2	Benzene	29,953	0	0	261	0	30,214	0	0	0
110-54-3	n-Hexane	20,582	0	0	263	0	20,845	0	0	0
107-21-1	Ethylene glycol	1,000	15,000	0	5	0	16,005	0	0	0
100-41-4	Ethylbenzene	13,217	0	0	256	4	13,477	0	0	4

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On- and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Zinc compounds	16,427	740	18,000,000	186,044,667	0	204,061,834	0	0	0
—	Lead compounds	8,305	139	6,800,000	76,120,918	16	82,929,378	4	0	16
—	Barium compounds	421,020	5	1,200,000	2,320,000	0	3,941,025	0	0	0
—	Manganese compounds	66,113	96	720,000	2,965,330	0	3,751,539	0	0	0
—	Copper compounds	661	32	1,100,000	2,530,126	0	3,630,819	0	0	0
—	Antimony compounds	16	4	170,000	1,310,000	0	1,480,020	0	0	0
—	Cadmium compounds	175	27	88,000	1,232,392	1	1,320,595	0	0	1
—	Arsenic compounds	482	5	760,000	534,000	0	1,294,487	0	0	0
—	Nickel compounds	337	279	22,000	748,253	2	770,871	0	0	2
—	Chromium compounds	172	6	0	544,983	2	545,163	3	0	2

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

ALASKA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pound	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Alaska Nitrogen Prods. L.L.C., Kenai, K110 Kenai Peninsula	1,542,451	95,370	0	256	0	8	1,638,085	0	11,050
Tesoro Alaska Petroleum Co., Kenai Refy., Kenai, Kenai Peninsula	206,374	1,058	0	0	0	114	207,546	0	36
Ketchikan Pulp Co., Ketchikan, Ketchikan Gateway	61,000	0	0	0	0	0	61,000	0	0
Williams Alaska Petroleum Inc., North Pole, Fairbanks North Star	28,337	0	0	0	0	1,750	30,087	0	0
Petro Star Valdez Refy., Valdez, Valdez-Cordova	500	0	0	0	0	0	500	0	0
Petro Star Inc., North Pole, Fairbanks North Star	255	0	0	0	0	0	255	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Release in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Red Dog Ops., Kotzebue, Northwest Arctic	479,668	719	0	0	0	249,203,015	249,683,402	0	21
Kennecott Greens Creek Mining Co., Juneau, Juneau	16,956	616	0	29,024,000	0	24,049,700	53,091,272	0	0
Fort Knox Mine, Fairbanks, Fairbanks North Star	14,590	0	0	0	0	1,515,869	1,530,459	0	0
Healy Power Plant, Healy, Denali	567,100	0	0	0	0	0	567,100	0	0
Nixon Fork Project, Mc Grath, Yukon-Koyukuk	0	0	0	0	0	190,005	190,005	0	0
Kenai Pipeline Co. — KPL Facility, Kenai, Kenai Peninsula	6,727	0	0	0	0	38	6,765	0	0
Equilon Anchorage Terminal, Anchorage, Anchorage	4,000	0	0	0	0	0	4,000	25	285
Williams Alaska Petroleum Inc. Anchorage Terminal, Anchorage, Anchorage	2,115	0	0	0	0	0	2,115	0	0
Tesoro Alaska Co. — Ketchikan Terminal, Ketchikan, Ketchikan Gateway	1,866	0	0	0	0	0	1,866	0	0
Tesoro Alaska Co. — Anchorage Terminal, Anchorage, Anchorage	1,596	0	0	0	0	0	1,596	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

ALASKA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Alaska Nitrogen Prods. L.L.C., Kenai, Kenai Peninsula	0	26,770	450,000	0	1,488,700	0	1,654,810	3,620,280	7,000
Tesoro Alaska Petroleum Co., Kenai Refy., Kenai, Kenai Peninsula	0	0	0	4,776	40,570	630	207,549	253,525	0
Ketchikan Pulp Co., Ketchikan, Ketchikan Gateway	0	0	0	0	0	0	61,000	61,000	0
Williams Alaska Petroleum Inc., North Pole, Fairbanks North Star	29,841	0	0	203	6,087	202	27,800	64,133	656
Petro Star Valdez Refy., Valdez, Valdez-Cordova	0	0	0	0	0	0	229	229	0
Petro Star Inc., North Pole, Fairbanks North Star	0	0	0	0	0	0	31	31	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Red Dog Ops., Kotzebue, Northwest Arctic	520,404	0	0	0	0	0	249,692,858	250,213,262	0
Kennecott Greens Creek Mining Co., Juneau, Juneau	0	0	0	0	0	0	53,803,000	53,803,000	0
Fort Knox Mine, Fairbanks, Fairbanks North Star	0	0	0	0	41,631	9,330	1,530,459	1,581,420	9
Healy Power Plant, Healy, Denali	0	0	0	0	0	0	567,100	567,100	4
Nixon Fork Project, Mc Grath, Yukon-Koyukuk	0	0	0	0	0	0	190,000	190,000	2
Kenai Pipeline Co. — KPL Facility, Kenai, Kenai Peninsula	0	0	0	86	0	0	6,765	6,851	0
Equilon Anchorage Terminal, Anchorage, Anchorage	0	0	0	0	0	0	2,741	2,741	18
Williams Alaska Petroleum Inc. Anchorage Terminal, Anchorage, Anchorage	0	0	0	172	8,659	0	2,116	10,947	0
Tesoro Alaska Co. — Ketchikan Terminal, Ketchikan, Ketchikan Gateway	0	0	0	0	0	0	1,865	1,865	0
Tesoro Alaska Co. — Anchorage Terminal, Anchorage, Anchorage	16,075	0	0	0	0	5	1,595	17,675	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

1998 Toxics Release Inventory

AMERICAN SAMOA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	8,750	5,147	13,897
Air Emissions	8,750	5,146	13,896
Surface Water Discharges	0	1	1
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	0	0	0
Off-site Releases (Transfers Off-site to Disposal)*	0	0	0
Total On- and Off-site Releases	8,750	5,147	13,897
Recycled On-site	0	0	0
Recycled Off-site	0	0	0
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	0	4,796	4,796
Treated On-site	0	0	0
Treated Off-site**	0	0	0
Quantity Released On- and Off-site***	8,750	5,148	13,898
Total Production-related Waste Managed	8,750	9,944	18,694
Total Non-production-related Waste Managed	0	0	0

Transfers Off-site for Further Waste Management/Disposal

Recycling	0	0	0
Energy Recovery	0	4,795	4,795
Treatment	0	0	0
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	0	0	0
Total Transfers Off-site for Further Waste Management/Disposal	0	4,795	4,795

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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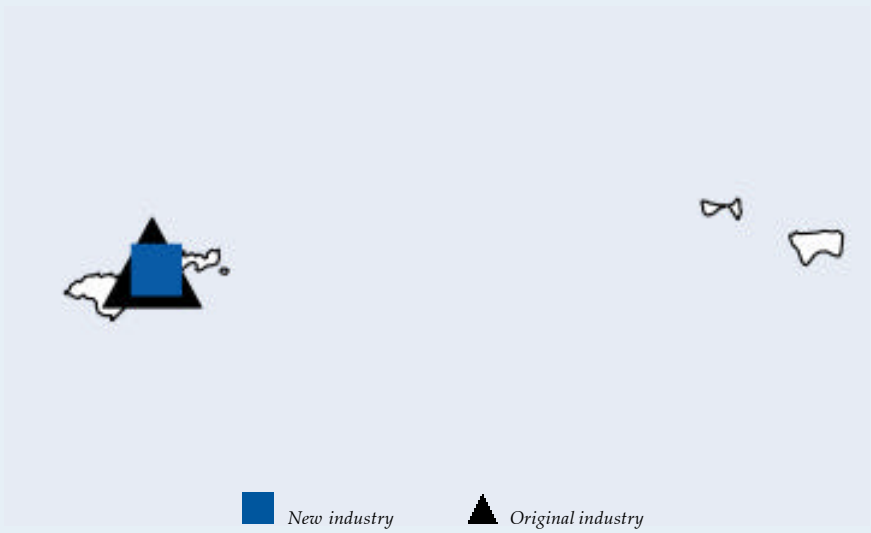

The largest marker in the state map represents the largest facility for on-site releases in American Samoa. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

State/TRI Data

Population	62,092
Square Miles	77
Total Facilities	2
Total Forms	7
Form As	0

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	54	54	54
Pounds	8,750	5,147	13,897
National Rank for Total On-site Releases**			
Rank	54	54	54
Pounds	8,750	5,147	13,897
National Rank for Total Releases within State***			
Rank	54	54	54
Pounds	8,750	5,147	13,897
National Rank for Production-related Waste Managed			
Rank	54	54	54
Pounds	8,750	9,944	18,694

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

AMERICAN SAMOA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Release		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	8,750	0	0	0	0	8,750	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Release		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
108-88-3	Toluene	1,694	1	0	0	0	1,695	0	0	0
110-54-3	n-Hexane	1,494	0	0	0	0	1,494	0	0	0
71-43-2	Benzene	1,113	0	0	0	0	1,113	0	0	0
1330-20-7	Xylene (mixed isomers)	524	0	0	0	0	524	0	0	0
95-63-6	1,2,4-Trimethylbenzene	219	0	0	0	0	219	0	0	0
100-41-4	Ethylbenzene	102	0	0	0	0	102	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

AMERICAN SAMOA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Cos Samoa Packing Co., Pago Pago Samoa, Eastern	8,750	0	0	0	0	0	8,750	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Utulei Petroleum Storage Terminal, Pago Pago Samoa, Eastern	5,146	1	0	0	0	0	5,147	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

AMERICAN SAMOA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Cos Samoa Packing Co., Pago Pago Samoa, Eastern	0	0	0	0	0	0	8,750	8,750	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Utulei Petroleum Storage Terminal, Pago Pago Samoa, Eastern	0	0	0	4,796	0	0	5,148	9,944	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

1998 Toxics Release Inventory

ARIZONA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	53,242,228	1,015,323,643	1,068,565,871
Air Emissions	5,840,821	4,186,783	10,027,604
Surface Water Discharges	5,038	1,148	6,186
Underground Injection Class I Wells	4	0	4
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	4,554	0	4,554
Other On-site Land Releases	47,391,811	1,011,135,712	1,058,527,523
Off-site Releases (Transfers Off-site to Disposal)*	839,920	53,631	893,551
Total On- and Off-site Releases	54,082,148	1,015,377,274	1,069,459,422
Recycled On-site	83,318,075	3,138,483	86,456,558
Recycled Off-site	29,357,820	265,750	29,623,570
Energy Recovery On-site	603,220	0	603,220
Energy Recovery Off-site	1,118,310	19,018	1,137,328
Treated On-site	9,462,416	2,462,995	11,925,411
Treated Off-site**	3,293,116	7,790	3,300,906
Quantity Released On- and Off-site***	54,472,730	1,120,138,553	1,174,611,283
Total Production-related Waste Managed	181,625,687	1,126,032,589	1,307,658,276
Total Non-production-related Waste Managed	29,476	420,340	449,816

Transfers Off-site for Further Waste Management/Disposal

Recycling	29,229,292	265,749	29,495,041
Energy Recovery	1,115,273	18,114	1,133,387
Treatment	1,219,207	3,637	1,222,844
Publicly Owned Treatment Works (POTWs)	1,753,685	13	1,753,698
Metals and Metal Compounds*	6,047	0	6,047
Non-metal TRI Chemicals**	1,747,638	13	1,747,651
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	1,097,756	72,714	1,170,470
Total Transfers Off-site for Further Waste Management/Disposal	34,415,213	360,227	34,775,440

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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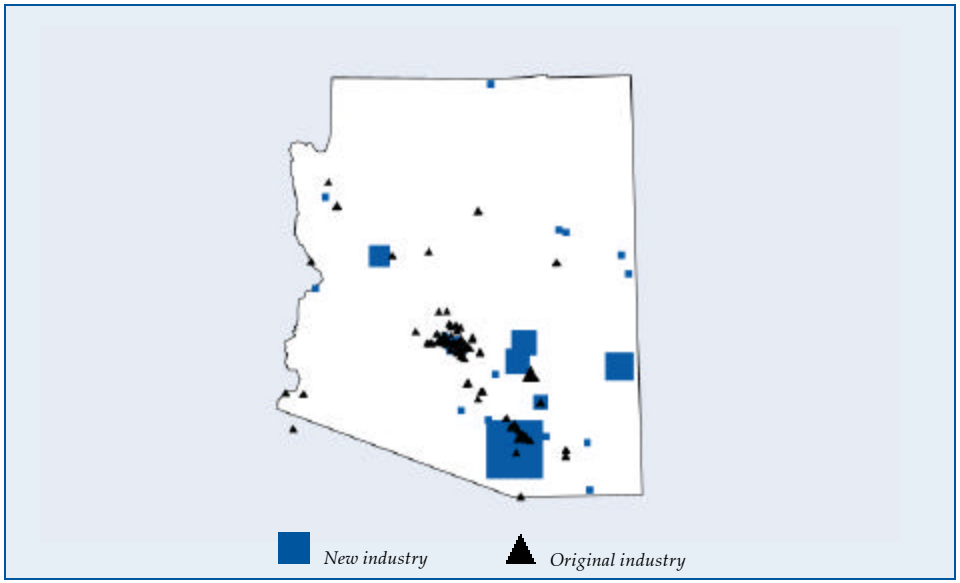

The largest marker in the state map represents the largest facility for on-site releases in the state of Arizona. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	4,668,631
Square Miles	113,642
Total Facilities	251
Total Forms	824
Form As	147

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	17	2	2
Pounds	54,082,148	1,015,377,274	1,069,459,422
National Rank for Total On-site Releases**			
Rank	14	2	2
Pounds	53,242,228	1,015,323,643	1,068,565,871
National Rank for Total Releases within State***			
Rank	18	2	2
Pounds	53,945,023	1,015,338,211	1,068,283,234
National Rank for Production-related Waste Managed			
Rank	30	2	5
Pounds	181,625,687	1,126,032,589	1,307,658,276

* *ncludes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

ARIZONA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Copper compounds	2,669,075	10	0	29,063,390	50,669	31,783,144	29,504	10,376	40,293
—	Zinc compounds	67,153	0	0	14,999,152	322,922	15,389,227	62,287	5,236	317,686
—	Lead compounds	24,945	0	0	2,526,940	44,723	2,596,608	0	6,650	38,073
67-56-1	Methanol	659,133	0	0	3,937	158,440	821,510	7,162	0	158,440
100-42-5	Styrene	675,544	0	0	0	1,650	677,194	0	1,650	0
110-54-3	n-Hexane	265,259	0	0	0	0	265,259	0	0	0
7440-47-3	Chromium	1,308	0	1	181,663	26,142	209,114	84	25,892	250
78-93-3	Methyl ethyl ketone	189,448	0	0	0	0	189,448	0	54	0
7439-96-5	Manganese	452	0	3	132,898	54,999	188,352	250	54,999	0
—	Glycol ethers	185,286	0	0	0	1,100	186,386	0	1,100	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Copper compounds	108,822	971	0	736,613,095	41,273	736,764,161	26	1,273	40,000
—	Zinc compounds	9,577	160	0	125,080,509	50	125,090,296	31	45	5
7440-50-8	Copper	452	0	0	93,065,400	0	93,065,852	0	0	0
—	Manganese compounds	5,574	0	0	19,594,856	327	19,600,757	21	327	0
—	Lead compounds	8,419	1	0	14,961,919	4,613	14,974,952	76	4,608	5
—	Barium compounds	13,571	0	0	6,195,400	1	6,208,972	520	0	1
—	Chromium compounds	2,221	11	0	3,671,113	16	3,673,361	8	14	2
—	Antimony compounds	500	0	0	2,900,000	0	2,900,500	0	0	0
7647-01-0	Hydrochloric acid	2,113,477	0	0	0	0	2,113,477	0	0	0
—	Nickel compounds	2,073	0	0	1,568,947	45	1,571,065	5	45	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

ARIZONA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Well Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	157,531	0	0	0	0	45,835,850	45,993,381	305	0
BHP Copper N. A. San Manuel Smelting & Refining, San Manuel, Pinal	2,656,745	0	0	0	0	1,282,328	3,939,073	0	1,683
Abitibi Consolidated Snowflake Divisioni, Snowflake, Navajo	751,544	0	0	0	0	131,015	882,559	293	0
Sea Ray Boats Inc., Phoenix, Maricopa	195,400	0	0	0	0	0	195,400	250	0
Penn Racquet Sports, Phoenix, Maricopa	159,385	0	0	0	3,800	0	163,185	3,800	0
Solomon Corp., Kingman, Mohave	0	0	0	0	2	134,158	134,160	0	1
American Natl. Can Co. Re: Phoenix AZ Facility, Phoenix, Maricopa	125,590	0	0	0	0	0	125,590	64	0
BF Goodrich Aircraft Evacuation Sys. Div., Phoenix, Maricopa	113,101	0	0	0	0	0	113,101	0	0
Hexcel Corp., Casa Grande, Pinal	99,417	0	0	0	0	0	99,417	0	0
Anderson Clayton Corp., Phoenix, Maricopa	88,109	0	0	0	0	0	88,109	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Well Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
ASARCO Inc. Mission Complex, Sahuarita, Pima	5,196	0	0	0	0	336,567,243	336,572,439	0	0
Phelps Dodge Morenci Inc., Morenci, Greenlee	84,634	0	0	0	0	141,637,448	141,722,082	0	0
Cyprus Sierrita Corp., Green Valley, Pima	19,570	10	0	0	0	129,924,040	129,943,620	0	0
Cyprus Miami Mining Corp., Claypool, Gila†	324,765	0	0	0	0	123,067,010	123,391,775	5,865	0
ASARCO Inc., Ray Complex/Ray Ops. Mine, Kearny, Pinal	30,376	183	0	0	0	116,086,643	116,117,202	0	0
Cyprus Bagdad Copper Corp., Bagdad, Yavapai	5,317	0	0	0	0	93,481,560	93,486,877	0	0
BHP Copper N.A. San Manuel Mining, San Manuel, Pinal	89,985	0	0	0	0	51,860,626	51,950,611	1,013	0
BHP Copper N.A. Pinto Valley Unit, Miami, Gila	14,195	0	0	0	0	8,740,400	8,754,595	25	0
Navajo Generating Station, Page, Coconino	1,057,277	0	0	0	0	2,603,450	3,660,727	0	3
Silver Bell Mining L.L.C., Silver Bell, Pima	4,330	0	0	0	0	2,723,380	2,727,710	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

†One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous reporting years, has been included in the new industry category SIC Code 10 for the purpose of this analysis.

1998 Toxics Release Inventory

ARIZONA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	66,366,773	4,311,694	0	0	0	0	45,993,487	116,671,954	0
BHP Copper N. A. San Manuel Smelting & Refining, San Manuel, Pinal	0	0	0	0	0	0	4,514,000	4,514,000	11
Abitibi Consolidated Snowflake Divisioni, Snowflake, Navajo	0	0	1,967	0	328,000	0	876,582	1,206,549	0
North Star Steel Arizona, Kingman, Mohave	122	2,828,050	0	0	0	0	384,922	3,213,094	0
Sea Ray Boats Inc., Phoenix, Maricopa	0	0	0	202	0	704	195,400	196,306	0
Penn Racquet Sports, Phoenix, Maricopa	0	0	0	4,100	0	0	163,185	167,285	0
TRW Vehicle Safety Sys. Mesa II Facility, Mesa, Maricopa	0	422,790	0	0	710	531,480	129,750	1,084,730	3
American Natl. Can Co. Re: Phoenix AZ Facility, Phoenix, Maricopa	0	0	0	664	91,747	0	125,654	218,065	0
BF Goodrich Aircraft Evacuation Sys. Div., Phoenix, Maricopa	0	0	0	7,125	0	5,552	113,101	125,778	0
Hexcel Corp., Casa Grande, Pinal	90,532	0	0	44,352	4,768	0	99,057	238,709	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
ASARCO Inc. Mission Complex, Sahuarita, Pima	0	0	0	0	0	0	445,046,341	445,046,341	0
Phelps Dodge Morenci Inc., Morenci, Greenlee	0	0	0	0	0	0	141,291,913	141,291,913	0
Cyprus Sierrita Corp., Green Valley, Pima	0	0	0	0	43,000	0	126,943,065	126,986,065	0
Cyprus Miami Mining Corp., Claypool, Gila†	0	0	0	0	0	5,466	123,357,010	123,362,476	0
ASARCO Inc., Ray Complex/Ray Ops. Mine, Kearny, Pinal	460,522	263,500	0	0	0	0	116,117,202	116,841,224	0
Cyprus Bagdad Copper Corp., Bagdad, Yavapai	0	0	0	0	0	0	93,486,115	93,486,115	0
BHP Copper N.A. San Manuel Mining, San Manuel, Pinal	0	0	0	0	6,329	0	51,946,806	51,953,135	2,015
BHP Copper N.A. Pinto Valley Unit, Miami, Gila	0	0	0	0	13,900	0	8,418,927	8,432,827	397,290
Navajo Generating Station, Page, Coconino	0	848	0	0	1,088,660	0	3,660,850	4,750,358	0
Silver Bell Mining L.L.C., Silver Bell, Pima	0	0	0	0	2,970	0	2,727,720	2,730,690	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

†One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous reporting years, has been included in the new industry category SIC Code 10 for the purpose of this analysis.

1998 Toxics Release Inventory

ARKANSAS

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	31,111,561	3,368,165	34,479,726
Air Emissions	25,858,289	1,296,374	27,154,663
Surface Water Discharges	1,820,349	20,378	1,840,727
Underground Injection Class I Wells	1,172,182	0	1,172,182
Underground Injection Class II-V Wells	5	0	5
On-site Land Releases to RCRA Subtitle C Landfills	169,622	22,800	192,422
Other On-site Land Releases	2,091,114	2,028,613	4,119,727
Off-site Releases (Transfers Off-site to Disposal)*	4,321,761	213,748	4,535,509
Total On- and Off-site Releases	35,433,322	3,581,913	39,015,235
Recycled On-site	307,082,125	417,862	307,499,987
Recycled Off-site	45,083,148	434,534	45,517,682
Energy Recovery On-site	31,483,664	3,164,825	34,648,489
Energy Recovery Off-site	6,312,538	4,402,565	10,715,103
Treated On-site	120,250,468	25,636,877	145,887,345
Treated Off-site**	1,540,244	68,112	1,608,356
Quantity Released On- and Off-site***	47,275,247	3,820,057	51,095,304
Total Production-related Waste Managed	559,027,434	37,944,832	596,972,266
Total Non-production-related Waste Managed	4,106,494	122	4,106,616

Transfers Off-site for Further Waste Management/Disposal

Recycling	43,374,220	429,860	43,804,080
Energy Recovery	7,585,629	4,408,584	11,994,213
Treatment	2,022,827	68,135	2,090,962
Publicly Owned Treatment Works (POTWs)	173,203	0	173,203
Metals and Metal Compounds*	21,895	0	21,895
Non-metal TRI Chemicals**	151,308	0	151,308
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	19,610,539	441,005	20,051,544
Total Transfers Off-site for Further WasteManagement/Disposal	72,766,418	5,347,584	78,114,002

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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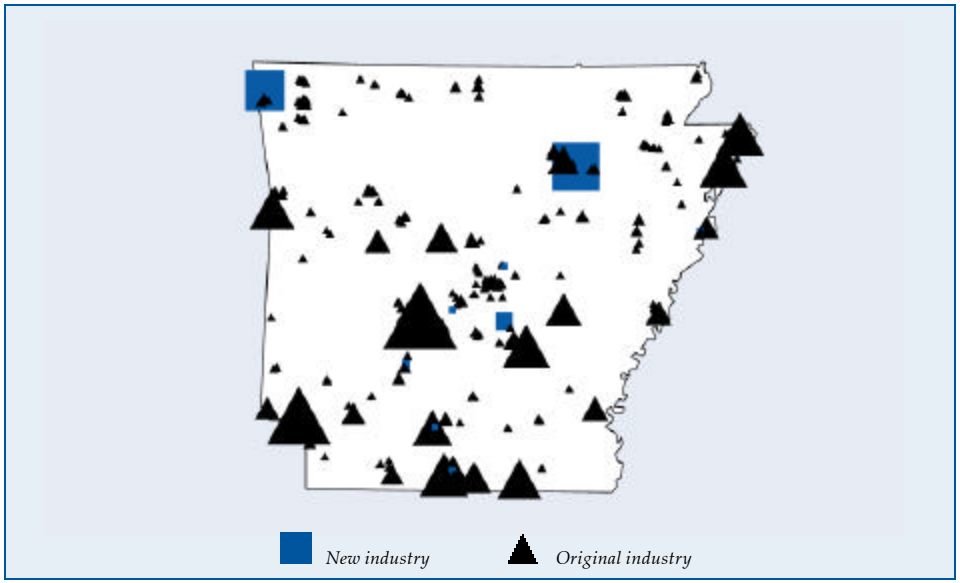


The largest marker in the state map represents the largest facility for on-site releases in the state of Arkansas. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	2,538,303
Square Miles	52,075
Total Facilities	405
Total Forms	1,464
Form As	218

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	23	46	33
Pounds	35,433,322	3,581,913	39,015,235
National Rank for Total On-site Releases**			
Rank	22	46	33
Pounds	31,111,561	3,368,165	34,479,726
National Rank for Total Releases within State***			
Rank	23	45	33
Pounds	34,544,732	4,310,665	38,885,397
National Rank for Production-related Waste Managed			
Rank	15	29	23
Pounds	559,027,434	37,944,832	596,972,266

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

ARKANSAS

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7440-66-6	Zinc (fume or dust)	104,466	315	0	11,358	9,222,147	9,338,286	27,000	29,635	9,192,512
67-56-1	Methanol	4,609,400	193,623	636,648	18,485	138,908	5,597,064	14,840	4,600	134,312
7664-41-7	Ammonia	4,768,478	135,810	0	15,876	4,167	4,924,331	0	4,167	0
—	Zinc compounds	82,899	65,715	3,329	226,971	4,190,827	4,569,741	159,709	452,487	3,738,340
110-54-3	n-Hexane	2,341,347	0	0	5	5	2,341,357	0	5	0
108-88-3	Toluene	2,148,811	259	47,426	0	3,231	2,199,727	192	782	3,169
1332-21-4	Asbestos (friable)	250	0	0	0	1,929,600	1,929,850	0	1,929,600	0
75-15-0	Carbon disulfide	1,925,006	250	0	0	0	1,925,256	0	0	0
—	Manganese compounds	20,306	218,345	0	615,886	555,527	1,410,064	316	140,627	414,900
7439-92-1	Lead	20,547	11	0	33,386	1,348,103	1,402,047	185	3,464	1,344,639

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Barium compounds	51,888	12,682	0	1,896,650	7,549	1,968,769	169,817	728	6,821
7664-39-3	Hydrogen fluoride	669,045	0	0	0	18	669,063	0	0	18
7647-01-0	Hydrochloric acid	422,885	0	0	0	0	422,885	0	0	0
—	Zinc compounds	5,438	1,847	0	48,113	126,744	182,142	40,038	19	126,725
7664-93-9	Sulfuric acid	96,830	0	0	0	0	96,830	0	0	0
—	Copper compounds	5,005	3,025	0	56,681	4,954	69,665	11,006	25	4,929
—	Lead compounds	4,163	9	0	0	55,921	60,093	48,588	0	55,921
—	Manganese compounds	2,745	2,287	0	31,851	824	37,707	285,000	25	799
—	Selenium compounds	1	0	0	0	34,159	34,160	21,236	0	34,159
—	Chromium compounds	1,441	115	0	10,916	21,432	33,904	75,104	9	21,423

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

ARKANSAS

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
U.S. Vanadium Corp., Hot Springs, Garland	1,349,700	27,047	0	0	0	685,190	2,061,937	0	0
Georgia-Pacific Ashdown Ops., Ashdown, Little River	1,100,704	271,269	0	0	0	364,152	1,736,125	0	0
Terra Nitrogen Co. L.P., Blytheville, Mississippi	1,143,150	117,325	0	0	0	765	1,261,240	0	0
Great Lakes Chemical Corp. — Central Plant, El Dorado, Union	154,584	0	1,106,049	0	0	0	1,260,633	0	59,899
Viskase Corp., Osceola, Mississippi	1,231,005	18,250	0	0	0	0	1,249,255	0	0
International Paper Co., Pine Bluff, Jefferson	1,144,610	16,255	0	0	0	43,050	1,203,915	0	0
Whirlpool Corp., Fort Smith, Sebastian	1,135,276	0	0	0	0	0	1,135,276	750	330
Georgia-Pacific Crossett Paper Ops., Crossett, Ashley	667,421	168,788	0	0	0	285,171	1,121,380	0	0
International Paper Co. Camden Facility, Camden, Ouachita	954,729	18,376	0	0	0	1,280	974,385	0	0
Columbian Chemicals Co., El Dorado, Union	870,000	0	0	0	0	0	870,000	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Energy — Independence Steam Electric Station, Newark, Independence	423,645	4,667	0	0	0	1,186,211	1,614,523	404	0
Flint Creek Power Plant, Gentry, Benton	434,817	6,410	0	0	0	842,400	1,283,627	0	0
Entergy — White Bluff Generating Plant, Redfield, Jefferson	390,209	9,252	0	0	0	0	399,461	408	0
Williams West Memphis Terminal, West Memphis, Crittenden	24,216	0	0	0	0	0	24,216	0	0
Reynolds Metals Co. Gum Springs Plant, Gum Springs, Clark	11	0	0	0	22,800	0	22,811	0	5
Environmental Sys. Co., El Dorado, Union	18,799	49	0	0	0	0	18,848	1,524	438,564
Rineco, Benton, Saline	3,682	0	0	0	0	0	3,682	0	0
Van Waters & Rogers Inc., Jacksonville, Pulaski	985	0	0	0	0	0	985	0	0
Arkansas Electric Coop. Corp., McClellan Generating Station, Camden,	10	0	0	0	0	2	12	0	100

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

ARKANSAS

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility/ City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Nucor-Yamato Steel Co., Blytheville, Mississippi	2,318,116	824,264	0	0	0	0	9,059,480	12,201,860	2,853,466
Nucor Steel, Arkansas Plant, Blytheville, Mississippi	2,618,600	10,014,900	0	0	0	0	3,974,077	16,607,577	5,232
U.S. Vanadium Corp., Hot Springs, Garland	1,466,000	0	0	0	0	0	2,061,900	3,527,900	0
Federal Mogul Friction Prods., Manila, Mississippi	0	0	0	0	0	0	1,929,700	1,929,700	0
Great Lakes Chemical Corp. — Central Plant, El Dorado, Union	0	0	0	0	0	0	1,320,532	1,320,532	0
Terra Nitrogen Co. L.P., Blytheville, Mississippi	500,000	23,000	0	0	300,000	0	1,308,700	2,131,700	0
Georgia-Pacific Ashdown Ops., Ashdown, Little River	15,000	0	4,001,500	4,200	25,107,420	0	1,302,808	30,430,928	0
Viskase Corp., Osceola, Mississippi	0	0	0	0	0	0	1,234,005	1,234,005	0
International Paper Co., Pine Bluff, Jefferson	0	0	33,900	0	12,679,901	0	1,203,925	13,917,726	0
Whirlpool Corp., Fort Smith, Sebastian	500,000	0	0	58,620	44,200	7,030	1,133,781	1,743,631	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility/ City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Energy - Independence Steam Electric Station, Newark, Independence	0	0	0	0	0	0	1,614,927	1,614,927	8
Flint Creek Power Plant, Gentry, Benton	0	0	0	0	72,900	0	1,293,110	1,366,010	0
Environmental Sys. Co., El Dorado, Union	400,082	434,534	3,164,825	1,170,622	25,303,977	68,077	460,317	31,002,434	0
Entergy- White Bluff Generating Plant, Redfield, Jefferson	0	0	0	0	0	0	399,866	399,866	10
Williams West Memphis Terminal, West Memphis, Crittenden	17,780	0	0	0	0	0	24,216	41,996	0
Reynolds Metals Co. Gum Springs Plant, Gum Springs, Clark	0	0	0	0	260,000	35	22,800	282,835	0
Rineco, Benton, Saline	0	0	0	3,231,943	0	0	3,828	3,235,771	2
Van Waters & Rogers Inc., Jacksonville, Pulaski	0	0	0	0	0	0	985	985	0
Arkansas Electric Coop. Corp., McClellan Generating Station, Camden, Ouachita	0	0	0	0	0	0	8	8	102
Harcros Chemicals Inc., Little Rock, Pulaski	0	0	0	0	0	0	0	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

CALIFORNIA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	32,580,331	30,025,356	62,605,687
Air Emissions	26,782,830	1,379,872	28,162,702
Surface Water Discharges	3,854,111	630	3,854,741
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	81,905	0	81,905
On-site Land Releases to RCRA Subtitle C Landfills	17,224	19,813,437	19,830,661
Other On-site Land Releases	1,844,261	8,831,417	10,675,678
Off-site Releases (Transfers Off-site to Disposal)*	7,835,671	249,020	8,084,691
Total On- and Off-site Releases	40,416,002	30,274,376	70,690,378
Recycled On-site	41,450,940	2,380,604	43,831,544
Recycled Off-site	79,640,702	1,247,695	80,888,397
Energy Recovery On-site	27,993,472	6	27,993,478
Energy Recovery Off-site	10,022,282	8,209,894	18,232,176
Treated On-site	77,512,667	10,832,272	88,344,939
Treated Off-site**	20,306,906	1,414,284	21,721,190
Quantity Released On- and Off-site***	43,049,212	30,709,140	73,758,352
Total Production-related Waste Managed	299,976,181	54,793,895	354,770,076
Total Non-production-related Waste Managed	175,937	103,077	279,014

Transfers Off-site for Further Waste Management/Disposal

Recycling	71,445,564	1,317,758	72,763,322
Energy Recovery	9,062,743	8,145,814	17,208,557
Treatment	5,123,883	1,566,177	6,690,060
Publicly Owned Treatment Works (POTWs)	17,239,154	90,746	17,329,900
Metals and Metal Compounds*	115,447	756	116,203
Non-metal TRI Chemicals**	17,123,707	89,990	17,213,697
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	9,884,551	276,579	10,161,130
Total Transfers Off-site for Further Waste Management/Disposal	112,755,895	11,397,074	124,152,969

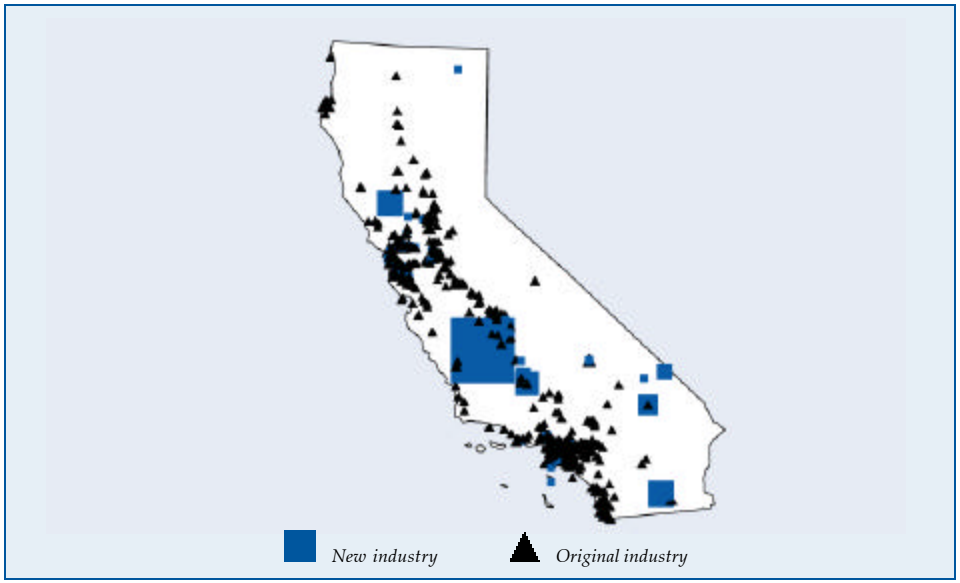
* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

State Contact:
California EPA
(916) 324-3421
Fax: (916) 324-1788

EPA Regional Contact:
Adam Browning
(415) 744-1121
Fax: (415) 744-1073

To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of California. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	32,666,550
Square Miles	155,973
Total Facilities	1,499
Total Forms	4,650
Form As	737

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	21	25	26
Pounds	40,416,002	30,274,376	70,690,378
National Rank for Total On-site Releases**			
Rank	21	25	27
Pounds	32,580,331	30,025,356	62,605,687
National Rank for Total Releases within State***			
Rank	23	25	27
Pounds	36,120,758	30,236,664	66,357,422
National Rank for Production-related Waste Managed			
Rank	25	25	25
Pounds	299,976,181	54,793,895	354,770,076

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

CALIFORNIA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7664-41-7	Ammonia	6,856,223	38,522	37,000	670,120	6,946	7,608,811	58	2,299	4,900
67-56-1	Methanol	2,821,208	1,234,238	12,000	29,031	9,093	4,105,570	0	1,431	7,662
100-42-5	Styrene	2,692,805	0	0	0	4,480	2,697,285	0	4,122	358
—	Lead compounds	12,633	623	0	0	2,677,858	2,691,114	356	918,662	2,244,253
—	Nitrate compounds	2,711	2,461,036	0	116,678	9,465	2,589,890	0	8,996	469
—	Glycol ethers	1,713,367	0	0	821	9,817	1,724,005	14,000	8,817	1,000
108-88-3	Toluene	1,165,917	433	500	53	2,372	1,169,275	152	1,063	1,309
110-54-3	n-Hexane	1,018,808	97	500	32	50	1,019,487	0	50	0
75-09-2	Dichloromethane	949,113	2	0	0	7,425	956,540	0	7,397	28
7439-92-1	Lead	1,117	16	0	11	938,115	939,259	22	97,286	881,674

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
1344-28-1	Aluminum oxide (fibrous forms)	5	0	0	4,177,170	0	4,177,175	0	0	0
1332-21-4	Asbestos (friable)	5	0	0	3,806,143	0	3,806,148	0	0	0
—	Lead compounds	2,104	0	0	3,691,317	13,685	3,707,106	6,758	755	12,930
—	Manganese compounds	1,005	0	0	2,811,783	0	2,812,788	0	0	0
7440-38-2	Arsenic	53	0	0	2,351,964	8	2,352,025	0	8	0
1336-36-3	Polychlorinated biphenyls (PCBs)	5	0	0	1,691,574	0	1,691,579	0	0	0
7440-39-3	Barium	2,090	1	0	1,683,027	3,449	1,688,567	0	3,194	255
—	Nickel compounds	291	0	0	1,420,664	250	1,421,205	41,161	3,000	250
—	Zinc compounds	1,605	7	0	1,163,119	269	1,165,000	72,050	14	255
—	Nitrate compounds	10	0	0	1,068,068	58,760	1,126,838	0	58,760	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory CALIFORNIA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Exxon Co. USA Benicia Refy., Benicia, Solano	977,553	770,947	0	0	0	0	1,748,500	13,578	4,824
Louisiana-Pacific Corp. Samoa Pulp Mill, Samoa, Humboldt	371,355	1,236,010	0	0	0	0	1,607,365	0	0
Chevron Prods. Co. Richmond Refy., Richmond, Contra Costa	871,956	295,810	0	0	0	0	1,167,766	58,692	99,696
Mobil Torrance Refy., Torrance, Los Angeles	1,166,779	157	0	0	0	0	1,166,936	11,174	6
Chevron USA Prods. Co., El Segundo, Los Angeles	673,961	467,403	0	0	0	138	1,141,502	23,485	1,054
Equilon Martinez Refining Co., Martinez, Contra Costa	312,451	762,894	0	0	0	0	1,075,345	17,181	0
Tosco San Francisco Area Refy. at Avon, Martinez, Contra Costa	1,050,770	21,888	0	0	0	0	1,072,658	8,065	1
IMC Chemicals Inc., Trona, San Bernardino	352,121	0	0	0	0	471,491	823,612	0	0
Carpenter Co., Lathrop, San Joaquin	742,155	0	0	0	0	0	742,155	0	0
New United Motor Mfg. Inc., Fremont, Alameda	639,855	0	0	0	0	0	639,855	1,000	32,255

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Chemical Waste Management Inc., Kettleman City, Kings	7,944	0	0	0	12,503,177	6	12,511,127	760	2,785
Safety-Kleen (Westmorland) Inc., Westmorland, Imperial	161	0	0	0	4,076,110	0	4,076,271	33	0
McLaughlin Mine, Lower Lake, Lake	45,111	0	0	0	0	3,889,836	3,934,947	0	0
Safety-Kleen (Buttonwillow) Inc., Buttonwillow, Kern	8,050	0	0	0	3,234,150	308,750	3,550,950	25	0
CR Briggs Corp., Ballarat, San Bernardino	21,000	0	0	0	0	2,800,000	2,821,000	0	0
Molycorp Inc., Mountain Pass, San Bernardino	6,775	0	0	0	0	1,679,784	1,686,559	0	12,670
Ace Cogeneration Facility, Trona, San Bernardino	128,400	0	0	0	0	86,000	214,400	0	0
Glamis Rand Mine, Randsburg, Kern	195,629	0	0	0	0	0	195,629	0	0
POSDEF Power Co. L.P., Stockton, San Joaquin	29,154	4	0	0	0	61,300	90,458	6	0
Viceroy Gold Corp. Castle Mountain Mine, Ivanpah, San Bernardino	87,967	0	0	0	0	0	87,967	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

CALIFORNIA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Quemetco Inc., City of Industry, Los Angeles	0	0	0	0	0	0	4,110,000	4,110,000	11,110
Exxon Co. USA Benicia Refy., Benicia, Solano	1,100	129,136	20,700,000	0	289,000	8,719	1,756,460	22,884,415	0
Chevron Prods. Co. Richmond Refy., Richmond, Contra Costa	0	151,863	0	0	669,050	0	1,324,420	2,145,333	6,920
Louisiana-Pacific Corp. Samoa Pulp Mill, Samoa, Humboldt	0	0	2,017,000	0	0	0	1,318,610	3,335,610	0
Mobil Torrance Refy., Torrance, Los Angeles	1,241,274	36,231	0	5,800	3,525,646	528,859	1,176,818	6,514,628	0
Chevron USA Prods. Co., El Segundo, Los Angeles	0	6,821	0	0	1,001,000	1,802	1,155,557	2,165,180	4,784
Equilon Martinez Refining Co., Martinez, Contra Costa	0	3,732	251	0	7,508,782	0	1,152,074	8,664,839	1,141
Tosco San Francisco Area Refy. at Avon, Martinez, Contra Costa	0	8,880	0	0	87,600	1,266	1,081,673	1,179,419	949
Precision Specialty Metals Inc., Los Angeles, Los Angeles	0	0	0	0	1,055,312	245	843,305	1,898,862	0
IMC Chemicals Inc., Trona, San Bernardino	0	0	0	0	0	10	823,612	823,622	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Chemical Waste Management Inc., Kettleman City, Kings	0	585	0	10	0	20,271	12,509,563	12,530,429	0
Safety-Kleen (Westmorland) Inc., Westmorland, Imperial	0	0	0	0	0	0	4,076,306	4,076,306	0
McLaughlin Mine, Lower Lake, Lake	0	0	0	0	6,353,773	0	3,934,947	10,288,720	13
Safety-Kleen (Buttonwillow) Inc., Buttonwillow, Kern	0	0	0	0	0	5	3,550,100	3,550,105	15
CR Briggs Corp., Ballarat, San Bernardino	0	46,000	0	0	0	0	2,819,770	2,865,770	3
Molycorp Inc., Mountain Pass, San Bernardino	9,908	41,436	0	0	0	12,670	1,686,071	1,750,085	0
Rho-Chem Corp., Inglewood, Los Angeles	80,000	0	0	391,021	0	0	655,220	1,126,241	0
Glamis Rand Mine, Randsburg, Kern	0	0	0	0	19,415	0	195,629	215,044	0
Safety-Kleen (Los Angeles) Inc., Los Angeles, Los Angeles	0	45,542	0	0	121,041	64,499	107,468	338,550	0
Stockton Cogen Co., Stockton, San Joaquin	0	0	0	0	0	0	98,984	98,984	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

COLORADO

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	4,046,360	21,092,244	25,138,604
Air Emissions	2,987,059	2,007,563	4,994,622
Surface Water Discharges	996,480	5,496	1,001,976
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	3,975,708	3,975,708
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	62,821	15,103,477	15,166,298
Off-site Releases (Transfers Off-site to Disposal)*	1,048,238	4,070,883	5,119,121
Total On- and Off-site Releases	5,094,598	25,163,127	30,257,725
Recycled On-site	15,020,295	3,830	15,024,125
Recycled Off-site	19,227,144	2,055	19,229,199
Energy Recovery On-site	392,668	0	392,668
Energy Recovery Off-site	4,745,334	44,613	4,789,947
Treated On-site	6,941,988	2,298,090	9,240,078
Treated Off-site**	3,280,735	1,756	3,282,491
Quantity Released On- and Off-site***	5,249,439	25,406,567	30,656,006
Total Production-related Waste Managed	54,857,603	27,756,911	82,614,514
Total Non-production-related Waste Managed	82,863	46,195	129,058

Transfers Off-site for Further Waste Management/Disposal

Recycling	19,364,519	46,310	19,410,829
Energy Recovery	4,961,021	878	4,961,899
Treatment	1,907,081	56	1,907,137
Publicly Owned Treatment Works (POTWs)	1,133,007	500	1,133,507
Metals and Metal Compounds*	2,621	500	3,121
Non-metal TRI Chemicals**	1,130,386	0	1,130,386
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	1,424,025	4,392,783	5,816,808
Total Transfers Off-site for Further Waste Management/Disposal	28,789,653	4,440,527	33,230,180

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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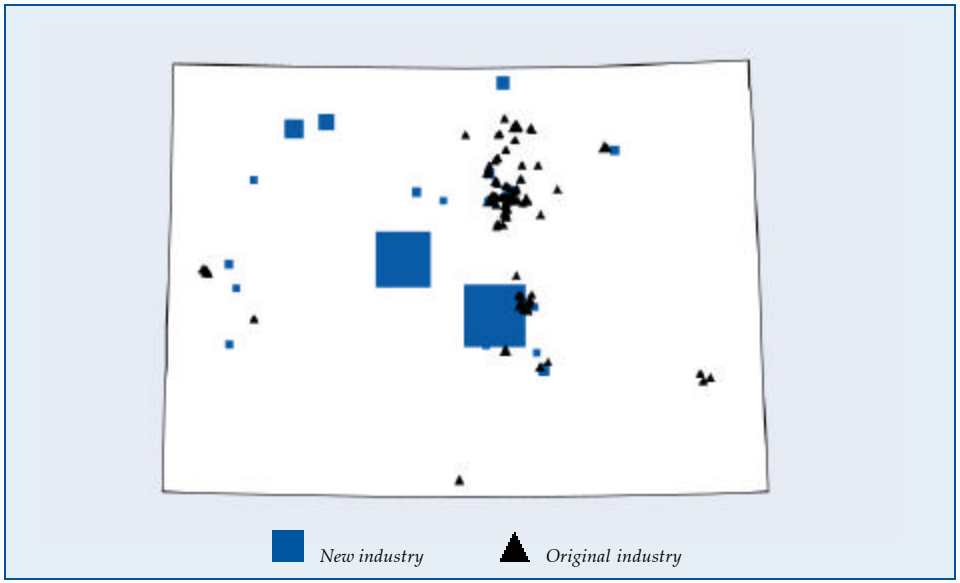

The largest marker in the state map represents the largest facility for on-site releases in the state of Colorado. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	3,970,971
Square Miles	103,729
Total Facilities	201
Total Forms	632
Form As	151

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	43	27	38
Pounds	5,094,598	25,163,127	30,257,725
National Rank for Total On-site Releases**			
Rank	44	28	37
Pounds	4,046,360	21,092,244	25,138,604
National Rank for Total Releases within State***			
Rank	44	27	37
Pounds	4,946,122	25,164,163	30,110,285
National Rank for Production-related Waste Managed			
Rank	41	31	44
Pounds	54,857,603	27,756,911	82,614,514

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

COLORADO

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Nitrate compounds	37	959,341	0	3	0	959,381	1,045	0	0
7664-41-7	Ammonia	594,785	10,958	0	3,805	872	610,420	0	872	0
71-36-3	n-Butyl alcohol	528,555	0	0	0	520	529,075	0	520	0
—	Glycol ethers	407,403	5,612	0	0	250	413,265	750	250	0
7439-96-5	Manganese	35,976	6	0	0	371,660	407,642	0	371,660	0
—	Zinc compounds	47,553	5	0	0	313,127	360,685	0	6,555	306,572
7664-38-2	Phosphoric acid	2,236	5	0	14,000	330,000	346,241	0	330,000	0
108-88-3	Toluene	262,961	0	0	0	3,600	266,561	5,097	3,600	0
67-56-1	Methanol	237,525	140	0	24	0	237,689	0	0	0
—	Manganese compounds	7,135	4,100	0	9,500	136,000	156,735	0	99,000	37,000

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Manganese compounds	2,750	1,534	0	7,783,145	520,050	8,307,479	0	539,050	0
—	Barium compounds	16,281	2,244	0	4,131,465	3,313,522	7,463,512	0	3,616,922	0
—	Zinc compounds	2,352	486	3,391,824	2,295,521	67,100	5,757,283	0	67,100	0
7664-39-3	Hydrogen fluoride	1,100,400	0	0	0	0	1,100,400	0	0	0
—	Lead compounds	611	419	479,133	485,147	36,000	1,001,310	0	36,000	0
7647-01-0	Hydrochloric acid	460,605	0	0	0	0	460,605	0	0	0
7664-41-7	Ammonia	290,000	0	0	38,000	0	328,000	0	0	0
—	Copper compounds	448	175	95,881	109,447	40,100	246,051	0	40,100	0
7440-39-3	Barium	72	0	0	71,710	71,711	143,493	0	71,711	0
—	Chromium compounds	273	11	0	21,115	21,000	42,399	0	21,000	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

COLORADO

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Eastman Kodak Co., Windsor, Weld	52,735	518,581	0	0	0	643	571,959	0	0
Ball Metal Beverage Container Corp., Golden, Jefferson	363,203	0	0	0	0	0	363,203	1,116	0
Holnam Inc. Portland Plant, Florence, Fremont	308,309	0	0	0	0	0	308,309	0	0
Leprino Foods Co., Fort Morgan, Morgan	0	304,346	0	0	0	0	304,346	0	0
Metal Container Corp., Windsor, Weld	278,605	0	0	0	0	0	278,605	500	0
Valley Metal Container, Golden, Jefferson	252,900	1	0	0	0	0	252,901	723	0
Roche Colorado Corp. formerly Syntex Chemicals Inc., Boulder, Boulder	199,830	0	0	0	0	0	199,830	0	0
Coors Brewing Co., Golden, Jefferson	13,744	148,600	0	0	0	0	162,344	330,120	0
Conoco Denver Refy., Commerce City, Adams	125,792	16,252	0	0	0	0	142,044	1,167	0
Gates Rubber Co., Denver, Denver	93,576	0	0	0	0	0	93,576	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Cripple Creek & Victor Gold Mining Co., Victor, Teller	9,055	0	0	0	0	7,482,875	7,491,930	0	0
ASARCO Inc. Leadville Unit Black Cloud Mine, Leadville, Lake	1,408	497	0	3,975,708	0	2,618,474	6,596,087	0	0
Trapper Minning Inc., Craig, Moffat	419	579	0	0	0	1,563,974	1,564,972	0	0
Public Service Co. of Colorado — Hayden Station, Hayden, Routt	712,260	0	0	0	0	479,000	1,191,260	0	0
Rawhide Energy Station, Wellington, Larimer	68,794	0	0	0	0	682,820	751,614	0	0
Public Service Co. of Colorado — Cherokee Station, Denver, Adams	344,170	980	0	0	0	367,700	712,850	887,400	0
Public Service Co. of Colorado — Comanche Station, Pueblo, Pueblo	44,180	1,430	0	0	0	536,000	581,610	190,100	0
Ray Nixon Power Plant, Fountain, El Paso	94,510	0	0	0	0	393,500	488,010	250	0
Public Service Co. of Colorado — Valmont Station, Boulder, Boulder	162,903	0	0	0	0	240,000	402,903	0	0
Public Service Co. of Colorado — Pawnee Station, Brush, Morgan	5,315	0	0	0	0	272,700	278,015	476,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

COLORADO

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
CF&I Steel L.P. DBA Rocky Mountain Steel Mills, Pueblo, Pueblo	0	5,861,100	0	0	0	0	572,500	6,433,600	0
Eastman Kodak Co., Windsor, Weld	0	132,000	0	0	737,000	92,900	572,470	1,534,370	0
Coors Brewing Co., Golden, Jefferson	0	7,800	0	0	20,000	760	488,600	517,160	3,900
Ball Metal Beverage Container Corp., Golden, Jefferson	0	0	0	880	664,000	0	361,400	1,026,280	0
Holnam Inc. Portland Plant, Florence, Fremont	0	0	0	0	0	0	309,000	309,000	0
Leprino Foods Co., Fort Morgan, Morgan	0	0	0	0	427,319	0	304,346	731,665	0
Metal Container Corp., Windsor, Weld	0	0	0	1,360	7,600	30	279,035	288,025	0
Valley Metal Container, Golden, Jefferson	0	83,000	0	0	600,120	0	255,904	939,024	0
Roche Colorado Corp. formerly Syntex Chemicals Inc., Boulder, Boulder	0	0	0	4,441,500	379,160	127,370	195,000	5,143,030	0
Wright & Mcgill Co., Denver, Denver	0	0	0	0	20,400	190,000	190,010	400,410	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Cripple Creek & Victor Gold Mining Co., Victor, Teller	0	0	0	0	0	0	7,491,910	7,491,910	0
ASARCO Inc. Leadville Unit Black Cloud Mine, Leadville, Lake	0	0	0	0	0	0	6,596,087	6,596,087	0
Tri-State Generation & Transmission — Craig Station, Craig, Moffat	0	0	0	0	1,514,000	0	1,659,010	3,173,010	0
Public Service Co. of Colorado — Cherokee Station, Denver, Adams	0	0	0	0	0	0	1,635,400	1,635,400	0
Trapper Minning Inc., Craig, Moffat	0	0	0	0	0	0	1,563,000	1,563,000	0
Public Service Co. of Colorado — Hayden Station, Hayden, Routt	0	0	0	0	0	0	1,193,000	1,193,000	0
Public Service Co. of Colorado — Comanche Station, Pueblo, Pueblo	0	0	0	0	0	0	776,740	776,740	0
Public Service Co. of Colorado — Pawnee Station, Brush, Morgan	0	0	0	0	0	0	752,500	752,500	0
Rawhide Energy Station, Wellington, Larimer	0	0	0	0	67,600	0	751,600	819,200	0
Ray Nixon Power Plant, Fountain, El Paso	0	0	0	0	134,000	0	488,000	622,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

CONNECTICUT

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	5,450,433	1,443,978	6,894,411
Air Emissions	4,813,164	1,443,894	6,257,058
Surface Water Discharges	600,326	84	600,410
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	36,943	0	36,943
Off-site Releases (Transfers Off-site to Disposal)*	2,087,069	982,642	3,069,711
Total On- and Off-site Releases	7,537,502	2,426,620	9,964,122
Recycled On-site	94,526,224	0	94,526,224
Recycled Off-site	19,528,393	0	19,528,393
Energy Recovery On-site	3,070,165	0	3,070,165
Energy Recovery Off-site	2,305,077	0	2,305,077
Treated On-site	44,169,482	238,685	44,408,167
Treated Off-site**	8,793,271	56,748	8,850,019
Quantity Released On- and Off-site***	6,841,765	2,708,224	9,549,989
Total Production-related Waste Managed	179,234,377	3,003,657	182,238,034
Total Non-production-related Waste Managed	62,444	17	62,461

Transfers Off-site for Further Waste Management/Disposal

Recycling	18,927,228	0	18,927,228
Energy Recovery	2,282,981	0	2,282,981
Treatment	7,293,333	5,973	7,299,306
Publicly Owned Treatment Works (POTWs)	1,111,117	98,180	1,209,297
Metals and Metal Compounds*	8,859	1,460	10,319
Non-metal TRI Chemicals**	1,102,258	96,720	1,198,978
Other Off-site Transfers****	4,106	0	4,106
Off-site Transfers to Disposal *(not including metals to POTWs)*	2,145,032	1,193,077	3,338,109
Total Transfers Off-site for Further WasteManagement/Disposal	31,736,797	1,297,230	33,061,027

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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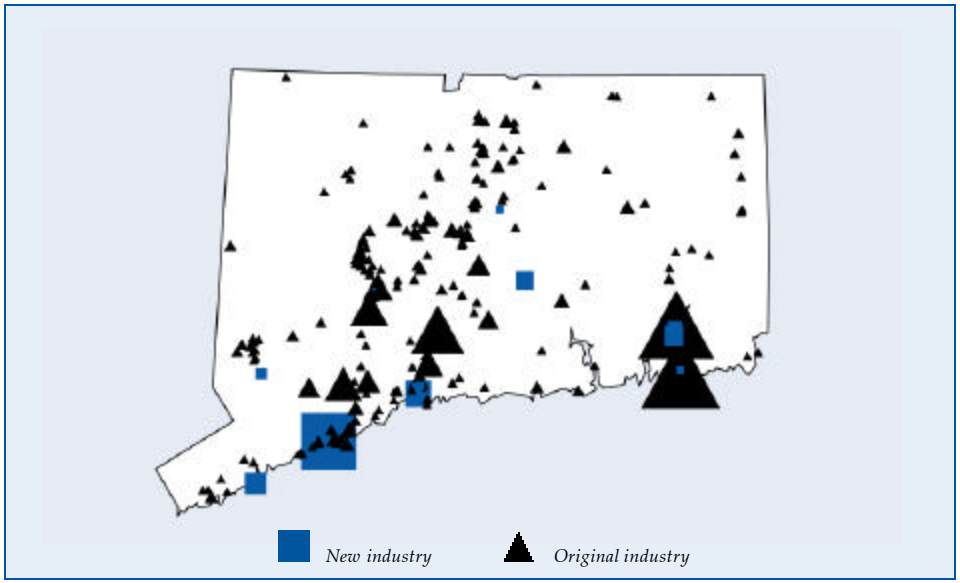

The largest marker in the state map represents the largest facility for on-site releases in the state of Connecticut. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	3,274,069
Square Miles	4,845
Total Facilities	326
Total Forms	949
Form As	99

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	39	48	46
Pounds	7,537,502	2,426,620	9,964,122
National Rank for Total On-site Releases**			
Rank	40	48	47
Pounds	5,450,433	1,443,978	6,894,411
National Rank for Total Releases within State***			
Rank	41	48	47
Pounds	6,832,985	1,574,306	8,407,291
National Rank for Production-related Waste Managed			
Rank	31	48	35
Pounds	179,234,377	3,003,657	182,238,034

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

CONNECTICUT

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
75-09-2	Dichloromethane	779,833	755	0	3	7,450	788,041	40	0	7,450
108-88-3	Toluene	661,922	5	0	1	736	662,664	250	0	736
67-56-1	Methanol	573,276	11,578	0	0	8,750	593,604	0	0	8,750
7440-50-8	Copper	23,127	575	0	251	508,999	532,952	603	386,191	122,808
—	Nitrate compounds	173	399,115	0	0	129,505	528,793	806	129,000	505
—	Zinc compounds	5,167	24,722	0	36,684	355,908	422,481	32,363	36,853	319,055
75-68-3	1-Chloro-1,1-difluo-roethane (HCFC-142b)	354,505	0	0	0	0	354,505	0	0	0
79-01-6	Trichloroethylene	298,823	0	0	0	0	298,823	0	0	0
7440-47-3	Chromium	2,186	2,316	0	1	288,390	292,893	712	185,450	103,175
78-93-3	Methyl ethyl ketone	267,793	0	0	1	5,900	273,694	0	3,550	2,350

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	669,000	0	0	0	0	669,000	0	0	0
7647-01-0	Hydrochloric acid	551,000	0	0	0	0	551,000	0	0	0
—	Copper compounds	3	1	0	0	221,978	221,982	0	343	221,635
—	Chromium compounds	763	1	0	0	194,030	194,794	4,903	543	193,487
—	Zinc compounds	3	1	0	0	161,592	161,596	750	3,488	158,104
—	Nitrate compounds	0	0	0	0	152,728	152,728	4,977	0	152,728
7697-37-2	Nitric acid	1,839	0	0	0	117,303	119,142	1,709	0	117,303
—	Nickel compounds	19,483	2	0	0	83,322	102,807	1,541	14,351	68,971
7440-02-0	Nickel	1,400	0	0	0	75,000	76,400	0	0	75,000
1634-04-4	Methyl tert-butyl ether	61,989	10	0	0	6,054	68,053	12,232	5,880	174

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory CONNECTICUT

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Pfizer Inc. — Groton Site, Groton, New London	350,880	251,465	0	0	0	0	602,345	60,005	77,210
Dow North America, Allyn's Point Plant, Gales Ferry, New London	579,063	14	0	0	0	0	579,077	0	3
Cytec Inds. Inc., Wallingford, New Haven	192,690	183,069	0	0	0	0	375,759	0	2,649
Uniroyal Chemical Co. Inc., Naugatuck, New Haven	248,211	0	0	0	0	0	248,211	373	27,076
Spongex Intl. LT, Shelton, Fairfield	239,073	0	0	0	0	0	239,073	0	0
Olin Corp. Somers Thin Strip Brass Group, Waterbury, New Haven	177,000	57	0	0	0	0	177,057	13	18,882
U.S. Surgical Corp., North Haven, New Haven	170,040	0	0	0	0	0	170,040	0	0
Carlon Prods. Co., Derby, New Haven	139,000	0	0	0	0	0	139,000	0	0
Habasit Abt, Middletown, Middlesex	120,100	0	0	0	0	0	120,100	0	0
Vitramon Inc., Monroe, Fairfield	115,360	5	0	0	0	3	115,368	10,207	15,471

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Bridgeport Harbor Station, Bridgeport, Fairfield	519,000	0	0	0	0	0	519,000	0	0
New Haven Harbor Station, New Haven, New Haven	199,400	0	0	0	0	0	199,400	0	75,000
Norwalk Harbor Station, Norwalk, Fairfield	148,701	0	0	0	0	0	148,701	14,000	7,900
Montville Station, Uncasville, New London	129,000	0	0	0	0	0	129,000	0	6,600
Middletown Station, Middletown, Middlesex	113,000	0	0	0	0	0	113,000	0	0
Northeast Petroleum New Haven Terminal, New Haven, New Haven	80,223	0	0	0	0	0	80,223	22,207	0
AES Thames Inc., Uncasville, New London	79,917	39	0	0	0	0	79,956	71	114,000
Devon Station, Milford, Fairfield	70,000	0	0	0	0	0	70,000	0	0
Gulf Oil Ltd. Ptnr. New Haven Terminal, New Haven, New Haven	46,795	40	0	0	0	0	46,835	3,000	0
Motiva Bridgeport Terminal, Bridgeport, Fairfield	34,400	5	0	0	0	0	34,405	169	501

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory CONNECTICUT

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Pfizer Inc.— Groton Site, Groton, New London	0	147,000	0	0	3,304,210	5,356,325	718,668	9,526,203	0
Dow North America, Allyn's Point Plant, Gales Ferry, New London	0	0	967,000	0	2,996	1,107,603	579,575	2,657,174	0
Cytec Inds. Inc., Wallingford, New Haven	65,296,596	0	0	537,976	4,189,582	9,308	378,082	70,411,544	326
Uniroyal Chemical Co. Inc., Naugatuck, New Haven	0	5,254	0	161,301	97,728	430,817	266,586	961,686	0
Spongex Intl. LT, Shelton, Fairfield	0	0	0	0	0	0	239,173	239,173	3
Olin Corp. Somers Thin Strip Brass Group, Waterbury, New Haven	0	0	0	7,300	8,400	0	196,044	211,744	0
U.S. Surgical Corp., North Haven, New Haven	0	219,980	0	0	28,900	5,130	170,040	424,050	0
Abbott Ball Co., West Hartford, Hartford	0	22,573	0	0	10,132	25	148,445	181,175	0
Carlon Prods. Co., Derby, New Haven	0	0	0	0	0	0	139,000	139,000	1
Cuno Inc., Meriden, New Haven	0	9,280	0	0	1,131,867	103,062	135,378	1,379,587	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Clean Harbors of Connecticut Inc., Bristol, Hartford	0	0	0	0	232,487	32,407	1,062,962	1,327,856	9
Bridgeport Harbor Station, Bridgeport, Fairfield	0	0	0	0	0	0	519,000	519,000	0
New Haven Harbor Station, New Haven, New Haven	0	0	0	0	0	0	274,400	274,400	0
AES Thames Inc., Uncasville, New London	0	0	0	0	0	0	194,000	194,000	7
Norwalk Harbor Station, Norwalk, Fairfield	0	0	0	0	0	0	171,000	171,000	0
Montville Station, Uncasville, New London	0	0	0	0	0	0	136,000	136,000	0
Middletown Station, Middletown, Middlesex	0	0	0	0	0	0	113,000	113,000	0
Devon Station, Milford, Fairfield	0	0	0	0	0	0	70,000	70,000	0
Northeast Petroleum New Haven Terminal, New Haven, New Haven	0	0	0	0	0	21,784	61,760	83,544	0
Gulf Oil Ltd. Ptnr. New Haven Terminal, New Haven, New Haven	0	0	0	0	0	2,557	47,004	49,561	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

DELAWARE

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	5,333,031	7,483,015	12,816,046
Air Emissions	4,238,492	6,832,696	11,071,188
Surface Water Discharges	747,352	59,740	807,092
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	250	0	250
Other On-site Land Releases	346,937	590,579	937,516
Off-site Releases (Transfers Off-site to Disposal)*	86,948	264,446	351,394
Total On- and Off-site Releases	5,419,979	7,747,461	13,167,440
Recycled On-site	34,449,054	0	34,449,054
Recycled Off-site	11,979,531	210	11,979,741
Energy Recovery On-site	16,155,665	0	16,155,665
Energy Recovery Off-site	1,496,321	0	1,496,321
Treated On-site	66,770,660	926,667	67,697,327
Treated Off-site**	3,953,988	300	3,954,288
Quantity Released On- and Off-site***	5,490,957	7,746,727	13,237,684
Total Production-related Waste Managed	140,296,176	8,673,904	148,970,080
Total Non-production-related Waste Managed	8,305	7	8,312

Transfers Off-site for Further Waste Management/Disposal

Recycling	11,981,105	210	11,981,315
Energy Recovery	1,491,543	0	1,491,543
Treatment	632,581	300	632,881
Publicly Owned Treatment Works (POTWs)	3,332,993	858	3,333,851
Metals and Metal Compounds*	11,332	858	12,190
Non-metal TRI Chemicals**	3,321,661	0	3,321,661
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	159,205	263,604	422,809
Total Transfers Off-site for Further Waste Management/Disposal	17,597,427	264,972	17,862,399

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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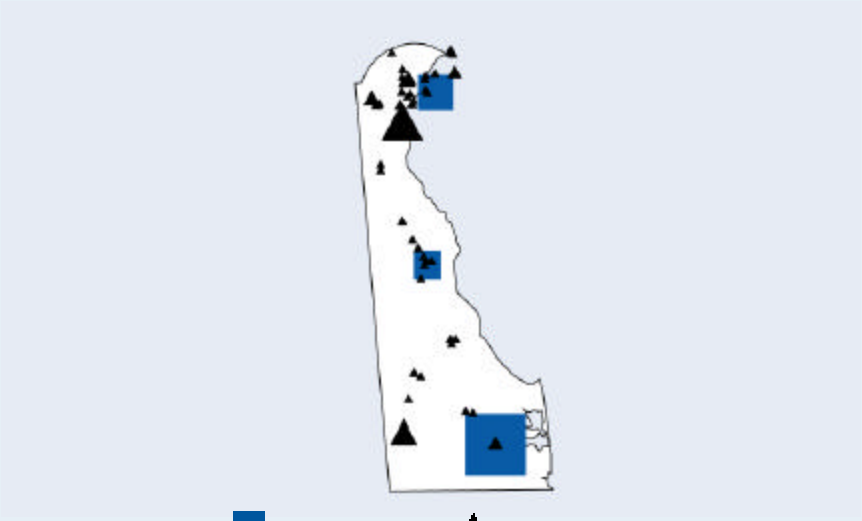

The largest marker in the state map represents the largest facility for on-site releases in the state of Delaware. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	743,603
Square Miles	1,955
Total Facilities	77
Total Forms	338
Form As	76

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	42	42	45
Pounds	5,419,979	7,747,461	13,167,440
National Rank for Total On-site Releases**			
Rank	41	42	43
Pounds	5,333,031	7,483,015	12,816,046
National Rank for Total Releases within State***			
Rank	42	42	44
Pounds	6,085,050	7,513,476	13,598,526
National Rank for Production-related Waste Managed			
Rank	32	44	37
Pounds	140,296,176	8,673,904	148,970,080

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

DELAWARE

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-Site Releases: Air Emissions Pounds	On-Site Releases: Surface Water Discharges Pounds	On-Site Releases: Underground Injection Pounds	On-Site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7664-93-9	Sulfuric acid	1,538,010	0	0	0	0	1,538,010	0	0	0
—	Nitrate compounds	0	669,670	0	0	0	669,670	0	0	0
7647-01-0	Hydrochloric acid	331,417	0	0	0	0	331,417	663,476	0	0
110-54-3	n-Hexane	307,691	0	0	1	0	307,692	250	0	0
1330-20-7	Xylene (mixed isomers)	300,802	84	0	0	67	300,953	320	0	67
463-58-1	Carbonyl sulfide	290,000	0	0	0	0	290,000	0	0	0
—	Nickel compounds	2,428	7,200	0	250,024	5,587	265,239	1,397	4,556	1,031
—	Glycol ethers	261,440	0	0	0	672	262,112	1,300	42	630
67-56-1	Methanol	112,559	29,000	0	0	0	141,559	0	0	0
75-01-4	Vinyl chloride	136,972	1	0	0	2	136,975	0	2	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-Site Releases: Air Emissions Pounds	On-Site Releases: Surface Water Discharge Pounds	On-Site Releases: Underground Injection Pounds	On-Site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	5,920,847	0	0	0	0	5,920,847	0	0	0
7664-93-9	Sulfuric acid	448,080	0	0	0	0	448,080	0	0	0
—	Barium compounds	16,925	3,038	0	237,620	118,808	376,391	0	4,966	113,842
7664-39-3	Hydrogen fluoride	374,718	0	0	0	0	374,718	0	0	0
—	Zinc compounds	5,496	19,918	0	88,803	41,540	155,757	13,000	1,857	39,683
—	Manganese compounds	7,921	21,303	0	67,373	34,607	131,204	0	1,224	33,383
—	Copper compounds	2,456	11,721	0	46,648	24,986	85,811	0	2,817	22,169
—	Nickel compounds	19,007	419	0	39,266	21,646	80,338	0	3,547	18,099
—	Chromium compounds	8,617	2,348	0	38,983	20,391	70,339	0	1,106	19,285
—	Lead compounds	2,252	986	0	36,462	1,043	40,743	0	762	281

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

DELAWARE

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Motiva Delaware City Refy., Delaware City, New Castle	1,580,497	57,419	0	0	0	281,662	1,919,578	0	585
Du Pont Seaford Plant, Seaford, Sussex	371,800	669,000	0	0	0	3,100	1,043,900	0	0
Daimler Chrysler Co. Newark Assembly Plant, Newark, New Castle	441,994	0	0	0	0	0	441,994	24,982	3,095
GMC Nao Wilmington Assembly Plant, Wilmington, New Castle	421,327	0	0	0	0	0	421,327	210	0
Townsends Inc., Millsboro, Sussex	277,737	0	0	0	0	61,416	339,153	0	0
Du Pont Edge Moor, Edgemoor, New Castle	305,072	0	0	0	0	0	305,072	0	0
Formosa Plastics Corp., Delaware City, New Castle	131,977	0	0	0	0	0	131,977	0	0
Metachem Prods. L.L.C., New Castle, New Castle	98,441	180	0	0	0	0	98,621	0	0
Rodel Inc., Newark, New Castle	91,858	0	0	0	0	0	91,858	0	0
Ciba Specialty Chemicals Corp., Newport, New Castle	70,101	0	0	0	0	0	70,101	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Indian River Power Plant, Millsboro, Sussex	3,344,968	11,286	0	0	0	577,845	3,934,099	11,827	10,907
Edge Moor/Hay Road Power Plants, Wilmington, New Castle	1,965,628	48,454	0	0	0	12,734	2,026,816	4,873	236,105
First State Power Management Inc., Dover, Kent	1,508,037	0	0	0	0	0	1,508,037	0	0
American Minerals Inc., New Castle, New Castle	11,963	0	0	0	0	0	11,963	750	0
Sico #360 Wilmington Terminal, Wilmington, New Castle	2,100	0	0	0	0	0	2,100	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

DELAWARE

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Motiva Delaware City Refy., Delaware City, New Castle	4	39,850	14,000,011	479	22,298,780	645	1,920,246	38,260,015	0
Du Pont Seaford Plant, Seaford, Sussex	0	0	0	0	28,000	21,013	1,043,900	1,092,913	1
Daimler Chrysler Co. Newark Assembly Plant, Newark, New Castle	0	450,512	0	3,500	63,990	251,714	464,381	1,234,097	0
GMC Nao Wilmington Assembly Plant, Wilmington, New Castle	0	297,400	0	0	87,122	63,868	419,722	868,112	0
Townsends Inc., Millsboro, Sussex	0	0	0	0	0	0	339,153	339,153	0
Du Pont Edge Moor, Edgemoor, New Castle	0	0	0	0	31,140,000	0	305,072	31,445,072	1,200
Formosa Plastics Corp., Delaware City, New Castle	0	0	0	0	390,683	0	131,265	521,948	712
Metachem Prods. L.L.C., New Castle, New Castle	373,422	0	0	0	3,965,376	30,769	94,458	4,464,025	4,307
Rodel Inc., Newark, New Castle	5,487,439	0	0	341,457	519,219	581,189	90,986	7,020,290	864
Zeneca Specialties a Business Unit of Zeneca Inc., New Castle, New Castle	0	0	0	122,829	0	83,374	80,499	286,702	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Indian River Power Plant, Millsboro, Sussex	0	0	0	0	686,929	0	3,956,833	4,643,762	1
Edge Moor/Hay Road Power Plants, Wilmington, New Castle	0	0	0	0	239,738	300	2,267,794	2,507,832	1
First State Power Management Inc., Dover, Kent	0	0	0	0	0	0	1,508,037	1,508,037	0
American Minerals Inc., New Castle, New Castle	0	0	0	0	0	0	11,963	11,963	4
Sico #360 Wilmington Terminal, Wilmington, New Castle	0	210	0	0	0	0	2,100	2,310	1

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

DISTRICT OF COLUMBIA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	11,506	66,250	77,756
Air Emissions	2,700	66,250	68,950
Surface Water Discharges	6	0	6
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	8,800	0	8,800
Off-site Releases (Transfers Off-site to Disposal)*	5	0	5
Total On- and Off-site Releases	11,511	66,250	77,761
Recycled On-site	0	0	0
Recycled Off-site	7,000	0	7,000
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	0	0	0
Treated On-site	300	0	300
Treated Off-site**	5,700	0	5,700
Quantity Released On- and Off-site***	11,512	66,000	77,512
Total Production-related Waste Managed	24,512	66,000	90,512
Total Non-production-related Waste Managed	0	295	295

Transfers Off-site for Further Waste Management/Disposal

Recycling	7,300	0	7,300
Energy Recovery	0	0	0
Treatment	0	0	0
Publicly Owned Treatment Works (POTWs)	5,700	0	5,700
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	5,700	0	5,700
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	5	0	5
Total Transfers Off-site for Further Waste Management/Disposal	13,005	0	13,005

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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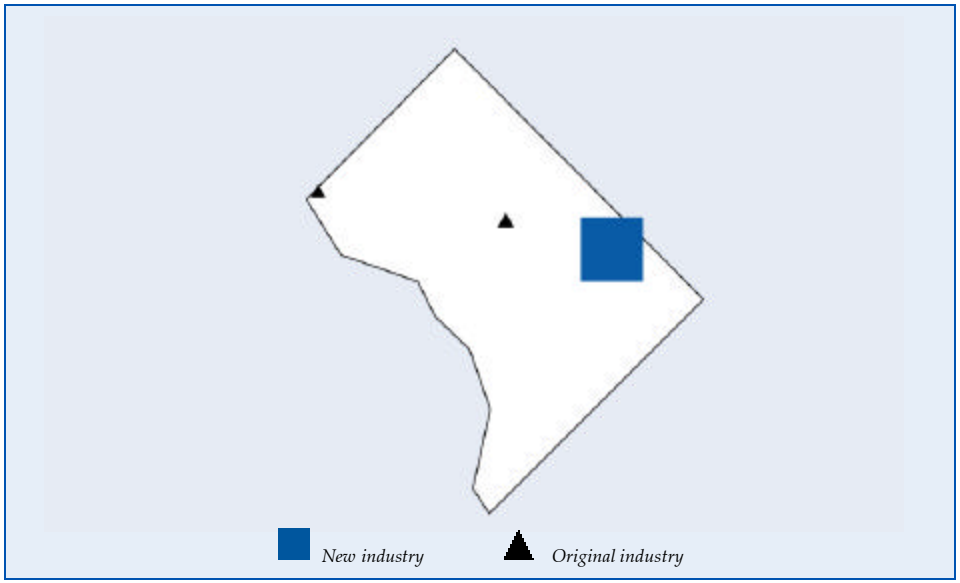


The largest marker in the state map represents the largest facility for on-site releases in the District of Columbia. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

State/TRI Data

Population	523,124
Square Miles	61
Total Facilities	4
Total Forms	6
Form As	0

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	53	51	53
Pounds	11,511	66,250	77,761
National Rank for Total On-site Releases**			
Rank	53	51	53
Pounds	11,506	66,250	77,756
National Rank for Total Releases within State***			
Rank	53	51	53
Pounds	12,301	66,250	78,551
National Rank for Production-related Waste Managed			
Rank	53	51	53
Pounds	24,512	66,000	90,512

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory DISTRICT OF COLUMBIA

On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Copper compounds	0	0	0	8,800	0	8,800	0	0	0
7782-50-5	Chlorine	2,700	6	0	0	0	2,706	0	0	0
—	Nickel compounds	0	0	0	0	5	5	250	0	5

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7664-93-9	Sulfuric acid	66,250	0	0	0	0	66,250	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory DISTRICT OF COLUMBIA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
U.S. Army Corps of Engineers Mcmillan WTP Aqueduct, Washington, Dist of Columbia	1,200	0	0	0	0	5,500	6,700	0	0
U.S. Army Corps of Engineers Dalecarlia WTP Aqueduct, Washington, Dist of Columbia	1,500	6	0	0	0	3,300	4,806	0	0
U.S. Bureau of Engraving & Printing, Washington, Dist of Columbia	0	0	0	0	0	0	0	0	5

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Benning Generating Station, Washington, Dist of Columbia	66,250	0	0	0	0	0	66,250	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory DISTRICT OF COLUMBIA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
U.S. Army Corps of Engineers Mcmillan WTP Aqueduct, Washington, Dist of Columbia	0	0	0	0	50	5,700	6,700	12,450	0
U.S. Army Corps of Engineers Dalecarlia WTP Aqueduct, Washington, Dist of Columbia	0	0	0	0	250	0	4,810	5,060	0
U.S. Bureau of Engraving & Printing, Washington, Dist of Columbia	0	7,000	0	0	0	0	2	7,002	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Benning Generating Station, Washington, Dist of Columbia	0	0	0	0	0	0	66,000	66,000	295

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

1998 Toxics Release Inventory

FLORIDA

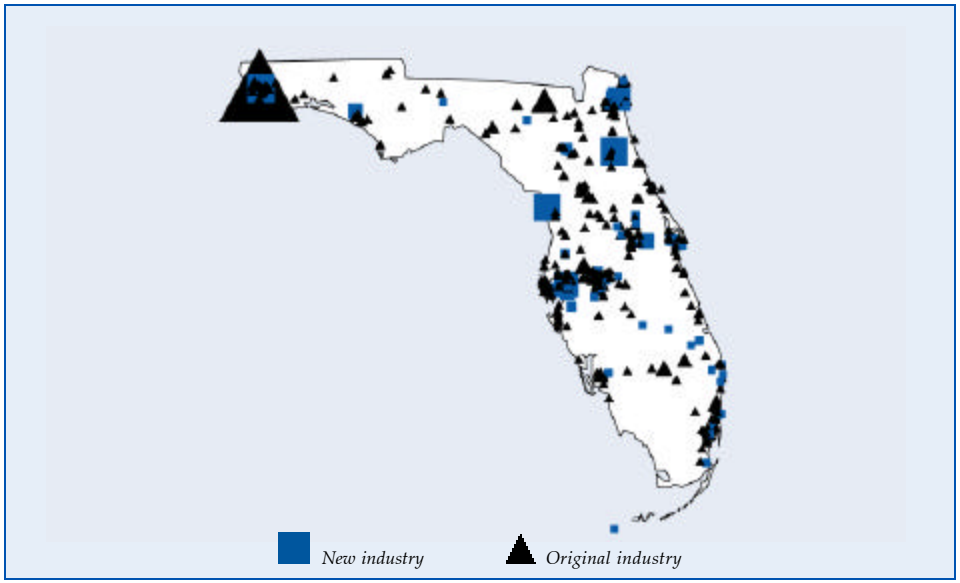
Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	75,991,454	66,458,514	142,449,968
Air Emissions	31,915,108	57,951,225	89,866,333
Surface Water Discharges	2,049,041	67,885	2,116,926
Underground Injection Class I Wells	27,473,112	0	27,473,112
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	2,064	934,073	936,137
Other On-site Land Releases	14,552,129	7,505,331	22,057,460
Off-site Releases (Transfers Off-site to Disposal)*	1,953,909	2,546,351	4,500,260
Total On- and Off-site Releases	77,945,363	69,004,865	146,950,228
Recycled On-site	706,626,708	1,587,979	708,214,687
Recycled Off-site	21,487,365	228,435	21,715,800
Energy Recovery On-site	15,126,614	0	15,126,614
Energy Recovery Off-site	3,637,599	773,108	4,410,707
Treated On-site	108,998,283	26,051,279	135,049,562
Treated Off-site**	9,037,205	27,064	9,064,269
Quantity Released On- and Off-site***	76,662,033	67,976,711	144,638,744
Total Production-related Waste Managed	941,575,807	96,644,576	1,038,220,383
Total Non-production-related Waste Managed	50,634	11,675	62,309

Transfers Off-site for Further Waste Management/Disposal

Recycling	21,224,905	230,810	21,455,715
Energy Recovery	3,791,221	768,279	4,559,500
Treatment	3,016,883	88,154	3,105,037
Publicly Owned Treatment Works (POTWs)	6,306,199	756	6,306,955
Metals and Metal Compounds*	13,659	14	13,673
Non-metal TRI Chemicals**	6,292,540	742	6,293,282
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	2,494,469	2,546,337	5,040,806
Total Transfers Off-site for Further Waste Management/Disposal	36,833,677	3,634,336	40,468,013

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*



The largest marker in the state map represents the largest facility for on-site releases in the state of Florida. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data†

Population	14,915,980
Square Miles	53,997
Total Facilities	603
Total Forms	1,763
Form As	319

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	11	13	13
Pounds	77,945,363	69,004,865	146,950,228
National Rank for Total On-site Releases**			
Rank	8	12	11
Pounds	75,991,454	66,458,514	142,449,968
National Rank for Total Releases within State***			
Rank	11	13	13
Pounds	77,415,767	67,652,995	145,068,762
National Rank for Production-related Waste Managed			
Rank	5	15	9
Pounds	941,575,807	96,644,576	1,038,220,383

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

For More Information . . .

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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347

†*Three IMC-Agrico plants in Mulberry, Florida submitted 1998 forms too late for inclusion in this report. They reported a total of 11.5 million pounds of on-site releases which changes the state national rankings as follows. Rank for total on- and off-site releases for original industries changes from 11 to 10 and for total industries from 13 to 12. Rank for total on-site releases for original industries changes from 8 to 5 and for total industries from 11 to 10. Rank for total releases within state for original industries changes from 11 to 10 and for total industries from 13 to 12.*

1998 Toxics Release Inventory

FLORIDA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)†

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Nitrate compounds	77,273	1,149,060	18,558,935	102,593	408,025	20,295,886	0	391,041	16,984
7664-38-2	Phosphoric acid	8,960	53,610	5	10,694,793	0	10,757,368	0	0	0
67-56-1	Methanol	8,607,023	93,200	515,250	809,429	60,686	10,085,588	0	60,686	0
7664-41-7	Ammonia	5,971,831	482,522	335,978	108,590	70,778	6,969,699	0	49,981	20,797
100-42-5	Styrene	4,158,051	1	0	0	52,186	4,210,238	0	32,349	19,837
64-18-6	Formic acid	6,205	0	3,800,000	0	0	3,806,205	3,036	0	0
71-36-3	n-Butyl alcohol	431,756	0	2,004,400	0	0	2,436,156	250	0	0
91-20-3	Naphthalene	1,206,499	5	0	1,193,700	0	2,400,204	0	0	0
108-88-3	Toluene	1,495,825	0	0	2,064	28,893	1,526,782	351	20,687	8,206
1717-00-6	1,1-Dichloro-1-fluoroethane (HCFC-141b)	1,283,176	0	0	0	16,536	1,299,712	0	15,949	587

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*
† *Three IMC-Agrico plants in Mulbery, Florida submitted 1998 forms too late for inclusion in this report. They reported total releases in the state of 7,140,000 pounds of phosphoric acid, 4,129,000 pounds of ammonia and 215,000 pounds of sulfuric acid. The rank of ammonia changes from fourth to third.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	31,618,431	0	0	0	0	31,618,431	0	0	0
7664-93-9	Sulfuric acid	21,045,134	0	0	0	0	21,045,134	0	0	0
7664-39-3	Hydrogen fluoride	3,066,995	0	0	5,600	1,001	3,073,596	0	1,001	0
—	Barium compounds	46,403	1,383	0	1,896,914	572,051	2,516,751	0	358,801	213,250
—	Nickel compounds	90,918	4,267	0	1,602,312	139,548	1,837,045	0	139,298	250
—	Zinc compounds	58,874	13,782	0	1,553,279	94,438	1,720,373	0	61,188	33,250
50-00-0	Formaldehyde	1,600,000	250	0	0	0	1,600,250	5	0	0
—	Manganese compounds	8,542	1,035	0	1,330,973	145,713	1,486,263	0	85,463	60,250
—	Lead compounds	7,970	271	0	151,962	1,189,091	1,349,294	0	277,841	911,250
—	Copper compounds	11,722	24,428	0	941,266	108,493	1,085,909	0	47,243	61,250

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

FLORIDA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)†

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Solutia Inc., Gonzalez, Escambia	197,061	1,717	26,937,419	0	0	0	27,136,197	1,361	1,300
PCS Phosphate — White Springs, White Springs, Hamilton	560,010	3,770	0	0	0	6,200,000	6,763,780	0	0
CF Ind. Inc. Plant City Phosphate Complex, Plant City, Hillsborough	1,224,448	69,928	0	0	0	2,400,000	3,694,376	0	0
U.S. Sugar Corp. Clewiston Mill, Clewiston, Hendry	1,516,800	0	0	0	0	1,410,800	2,927,600	0	0
Champion Intl. Corp., Cantonment, Escambia	2,296,744	195,065	0	0	0	177,000	2,668,809	266,280	0
Farmland Hydro L.P., Bartow, Polk	830,000	580	0	0	0	1,412,000	2,242,580	0	0
U.S. Sugar Corp., Bryant Sugar House, Bryant, Palm Beach	969,500	0	0	0	0	1,217,459	2,186,959	0	0
Georgia-Pacific Corp., Palatka, Putnam	1,962,467	65,702	0	0	0	38,756	2,066,925	0	0
Buckeye Florida L.P., Perry, Taylor	1,656,728	98,431	0	0	0	141,004	1,896,163	0	0
Jefferson Smurfit Corp., Fernandina Beach, Nassau	1,477,044	13,184	0	0	0	0	1,490,228	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

†Three IMC-Agrico plants in Mulbery, Florida submitted 1998 forms too late for inclusion in this report. The New Wales plant reported 4,149,100 pounds, the Nichols Plant reported 3,671,340 pounds and the South Pierce plant reported 3,664,000 pounds of total on-site releases. They rank third, fifth and sixth in the state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Gulf Power Co. — Plant Crist, Pensacola, Escambia	9,275,450	1,621	0	0	0	481,679	9,758,750	0	0
Seminole Generating Station, Palatka, Putnam	8,386,772	3,582	0	0	0	1,208,647	9,599,001	0	0
Florida Power Corp., Crystal River Energy Complex, Crystal River, Citrus	8,440,499	18,900	0	0	0	333,900	8,793,299	178	0
Tampa Electric Co. — Gannon Station, Tampa, Hillsborough	8,000,790	2,600	0	0	0	128,109	8,131,499	0	0
St. Johns River Power Park Northside Generating Statin, Jacksonville, Duval	6,152,110	8,650	0	0	0	1,269,410	7,430,170	1,020	2,010
Stanton Energy Complex, Orlando, Orange	251,710	0	0	0	0	3,578,650	3,830,360	788,005	0
Gulf Power Co. — Plant Lansing Smith, Southport, Bay	3,279,421	2,011	0	0	0	312,862	3,594,294	0	0
Tampa Electric Co. — Big Bend Station, Apollo Beach, Hillsborough	3,244,564	10,000	0	0	0	131,587	3,386,151	0	0
Gainesville Regional Utilities Deerhaven Generating Station, Gainesville, Alachua	2,072,068	11	0	0	0	5,300	2,077,379	194	0
Indian River Power Plant, Titusville, Brevard	1,979,350	17,755	0	0	0	0	1,997,105	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

FLORIDA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)†

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Solutia Inc., Gonzalez, Escambia	46,000	128,000	1,326,500	0	16,000,020	0	27,133,460	44,633,980	980
PCS Phosphate — White Springs, White Springs, Hamilton	0	0	0	0	2,400	0	6,760,010	6,762,410	0
CF Ind. Inc. Plant City Phosphate Complex, Plant City, Hillsborough	0	0	0	0	0	0	3,955,000	3,955,000	786
Champion Intl. Corp., Cantonment, Escambia	0	0	1,662,000	0	9,789,000	0	2,783,080	14,234,080	0
Farmland Hydro L.P., Bartow, Polk	0	0	0	0	0	0	2,240,000	2,240,000	0
Georgia-Pacific Corp., Palatka, Putnam	0	0	0	0	11,374,700	0	2,028,580	13,403,280	0
Buckeye Florida L.P., Perry, Taylor	0	0	1,730,400	0	14,631,461	0	1,983,880	18,345,741	0
Jefferson Smurfit Corp., Fernandina Beach, Nassau	0	0	41,661	0	9,466,159	0	1,574,158	11,081,978	0
U.S. Sugar Corp. Clewiston Mill, Clewiston, Hendry	0	0	0	0	0	0	1,516,800	1,516,800	0
Rayonier Inc. Fernandina Pulp Div., Fernandina Beach, Nassau	0	0	2,108,990	0	4,160,900	0	1,262,910	7,532,800	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases..*

†Three IMC-Agrico plants in Mulberry, Florida submitted 1998 forms too late for inclusion in this report. The New Wales plant reported 4,150,000 pounds, the South Pierce plant reported 3,664,000 pounds and the Nichols Plant reported 3,661,000 pounds of quantity released on- and off-site. They rank third, fifth and sixth in the state.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Gulf Power Co. — Plant Crist, Pensacola, Escambia	0	0	0	0	0	0	9,758,750	9,758,750	0
Seminole Generating Station, Palatka, Putnam	0	0	0	0	6,949,306	0	9,599,001	16,548,307	0
Florida Power Corp., Crystal River Energy Complex, Crystal River, Citrus	0	0	0	0	1,300,000	0	8,793,300	10,093,300	0
Tampa Electric Co. — Gannon Station, Tampa, Hillsborough	0	49	0	0	2,960,000	0	8,131,498	11,091,547	2
St. Johns River Power Park Northside Generating Statin, Jacksonville, Duval	0	0	0	0	4,379,600	0	7,399,500	11,779,100	15
Stanton Energy Complex, Orlando, Orange	0	0	0	0	5,700,000	0	3,828,380	9,528,380	0
Gulf Power Co. — Plant Lansing Smith, Southport, Bay	0	0	0	0	0	0	3,594,294	3,594,294	0
Tampa Electric Co. — Big Bend Station, Apollo Beach, Hillsborough	0	10	0	0	0	0	3,386,151	3,386,161	0
Gainesville Regional Utilities Deerhaven Generating Station, Gainesville, Alachua	0	0	0	0	84,000	0	2,077,600	2,161,600	0
Indian River Power Plant, Titusville, Brevard	0	0	0	0	0	0	1,980,100	1,980,100	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

GEORGIA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	55,083,095	58,553,846	113,636,941
Air Emissions	46,621,812	47,279,415	93,901,227
Surface Water Discharges	6,288,967	137,909	6,426,876
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	238,189	0	238,189
Other On-site Land Releases	1,934,127	11,136,522	13,070,649
Off-site Releases (Transfers Off-site to Disposal)*	2,410,951	2,776	2,413,727
Total On- and Off-site Releases	57,494,046	58,556,622	116,050,668
Recycled On-site	280,851,010	538,000	281,389,010
Recycled Off-site	53,769,200	185,517	53,954,717
Energy Recovery On-site	45,242,232	0	45,242,232
Energy Recovery Off-site	11,927,123	95,515	12,022,638
Treated On-site	174,892,589	354,733	175,247,322
Treated Off-site**	7,366,156	4,642	7,370,798
Quantity Released On- and Off-site***	64,208,570	58,544,165	122,752,735
Total Production-related Waste Managed	638,256,880	59,722,572	697,979,452
Total Non-production-related Waste Managed	65,965	2,643	68,608

Transfers Off-site for Further Waste Management/Disposal

Recycling	50,952,209	185,212	51,137,421
Energy Recovery	12,283,557	96,638	12,380,195
Treatment	5,527,971	14,711	5,542,682
Publicly Owned Treatment Works (POTWs)	3,323,283	1,070	3,324,353
Metals and Metal Compounds*	70,047	0	70,047
Non-metal TRI Chemicals**	3,253,236	1,070	3,254,306
Other Off-site Transfers****	4,948	0	4,948
Off-site Transfers to Disposal *(not including metals to POTWs)*	9,714,090	2,794	9,716,884
Total Transfers Off-site for Further Waste Management/Disposal	81,806,058	300,425	82,106,483

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
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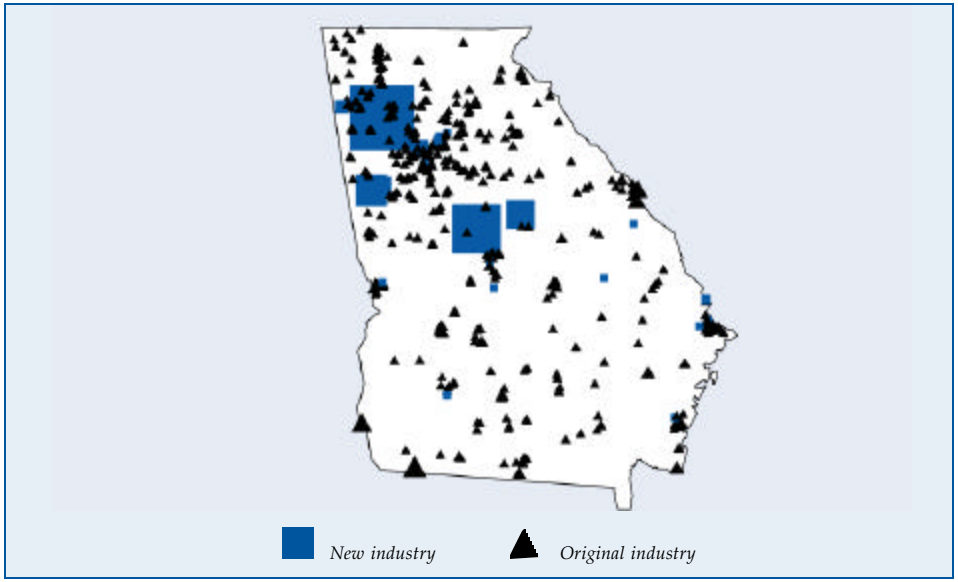

The largest marker in the state map represents the largest facility for on-site releases in the state of Georgia. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	7,642,207
Square Miles	57,919
Total Facilities	774
Total Forms	2,668
Form As	669

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	14	17	19
Pounds	57,494,046	58,556,622	116,050,668
National Rank for Total On-site Releases**			
Rank	13	17	18
Pounds	55,083,095	58,553,846	113,636,941
National Rank for Total Releases within State***			
Rank	14	17	19
Pounds	56,981,318	58,616,737	115,598,055
National Rank for Production-related Waste Managed			
Rank	12	24	16
Pounds	638,256,880	59,722,572	697,979,452

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

GEORGIA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	11,725,667	263,531	0	5,670	13,647	12,008,515	11,776	11,486	2,161
7664-41-7	Ammonia	7,783,968	160,380	0	39,968	8,776	7,993,092	13,872	8,516	260
—	Zinc compounds	110,043	130,622	0	133,054	6,089,662	6,463,381	28,157	333,716	5,755,951
—	Nitrate compounds	7,712	5,132,505	0	277,849	1,300	5,419,366	5	1,300	0
100-42-5	Styrene	3,276,027	250	0	500	29,687	3,306,464	172,136	17,008	12,679
1330-20-7	Xylene (mixed isomers)	3,225,599	45	0	0	12,032	3,237,676	633	1,019	11,013
108-88-3	Toluene	2,810,247	659	0	0	23,908	2,834,814	1,403	858	23,300
7647-01-0	Hydrochloric acid	2,164,579	0	0	0	0	2,164,579	0	0	0
—	Manganese compounds	69,842	302,856	0	600,701	907,811	1,881,210	0	373,690	534,121
110-54-3	n-Hexane	1,535,936	34	0	0	255	1,536,225	256	255	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	38,269,704	0	0	0	0	38,269,704	0	0	0
—	Barium compounds	39,663	25,732	0	6,618,145	0	6,683,540	755	0	0
7664-93-9	Sulfuric acid	4,725,070	0	0	0	0	4,725,070	0	0	0
7664-39-3	Hydrogen fluoride	4,000,199	0	0	0	0	4,000,199	10	0	0
—	Copper compounds	6,749	42,209	0	816,294	5	865,257	250	5	0
—	Manganese compounds	10,211	38,071	0	786,652	0	834,934	250	0	0
—	Zinc compounds	21,291	20,818	0	714,767	5	756,881	625	5	0
—	Chromium compounds	8,753	3,680	0	718,708	9	731,150	1,403	0	9
—	Nickel compounds	8,446	5,731	0	572,189	0	586,366	250	0	0
—	Cobalt compounds	3,328	0	0	382,554	0	385,882	250	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

GEORGIA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Engelhard Corp. Attapulgus Ops., Attapulgus, Decatur	2,569,943	1,164,148	0	0	0	0	3,734,091	0	0
Union Camp Corp., Savannah, Chatham	2,626,430	304,830	0	0	0	0	2,931,260	380,800	27,830
Great Southern Paper Co., Cedar Springs, Early	2,449,036	77,695	0	0	0	349,957	2,876,688	0	0
DSM Chemicals N.A. Inc., Augusta, Richmond	696,044	2,063,957	0	0	0	0	2,760,001	2,849	0
Inland Paperboard & Packaging Inc., Rome, Floyd	2,119,772	126,247	0	0	0	156,422	2,402,441	8,628	0
International Paper, Augusta Ops., Augusta, Richmond	1,822,356	213,787	0	0	0	291,221	2,327,364	0	0
GM MLCG — Doraville Assembly, Doraville, De Kalb	2,246,720	60	0	0	0	0	2,246,780	980	10,604
PCS Nitrogen Fertilizer L.P., Augusta, Richmond	1,600,126	374,600	0	0	0	0	1,974,726	0	0
Georgia-Pacific Corp. Brunswick Ops., Brunswick, Glynn	1,422,140	27,258	0	0	0	34,816	1,484,214	0	0
Gilman Paper Co., Saint Marys, Camden	1,159,947	154,345	0	0	0	0	1,314,292	50,250	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Bowen Steam Electric Generating Plant, Cartersville, Bartow	18,052,259	18,589	0	0	0	1,430,077	19,500,925	0	18
Scherer Steam Electric Generating Plant, Juliette, Monroe	8,917,138	26,293	0	0	0	5,006,931	13,950,362	0	0
Wansley Steam Electric Generating Plant, Roopville, Heard	6,675,128	7,379	0	0	0	1,359,569	8,042,076	6	0
Branch Steam Electric Generating Plant, Milledgeville, Putnam	5,576,860	11,220	0	0	0	1,371,097	6,959,177	4	0
Yates Steam Electric Generating Plant, Newnan, Coweta	2,529,202	30,119	0	0	0	894,032	3,453,353	0	0
McDonough/Atkinson Steam Electric Generating Plant, Smyrna, Cobb	3,021,517	33,394	0	0	0	360,439	3,415,350	0	0
Hammond Steam Electric Generating Plant, Coosa, Floyd	1,262,847	3,147	0	0	0	556,984	1,822,978	0	0
Savannah Electric — Plant McIntosh, Rincon, Effingham	442,558	0	0	0	0	53,733	496,291	0	0
Arkwright Steam Electric Generating Plant, Macon, Bibb	193,828	15	0	0	0	24,938	218,781	0	0
Mitchell Steam Electric Generating Plant, Albany, Dougherty	153,768	181	0	0	0	55,327	209,276	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

GEORGIA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Birmingham Southeast LLC, Cartersville, Bartow	0	0	0	0	0	0	3,831,978	3,831,978	0
Engelhard Corp. Attapulgus Ops., Attapulgus, Decatur	0	0	0	0	559	0	3,734,091	3,734,650	0
Union Camp Corp., Savannah, Chatham	113,650	0	2,746,410	170,910	6,476,030	27,800	3,315,920	12,850,720	0
Southwire Co., Carrollton, Carroll	0	1,018,383	0	55	1	82	3,182,027	4,200,548	2,470
Great Southern Paper Co., Cedar Springs, Early	430	0	56,920	0	7,111,300	1,700	2,859,200	10,029,550	0
DSM Chemicals N.A. Inc., Augusta, Richmond	388,713	0	2,130,329	0	8,737,355	25,427	2,762,850	14,044,674	0
Inland Paperboard & Packaging Inc., Rome, Floyd	0	0	11,190,000	0	3,309,660	1	2,362,998	16,862,659	0
International Paper, Augusta Ops., Augusta, Richmond	0	0	95,700	0	16,314,660	0	2,326,190	18,736,550	0
GM MLCG — Doraville Assembly, Doraville, De Kalb	0	1,299,308	0	18,970	395,240	312,690	2,211,028	4,237,236	0
PCS Nitrogen Fertilizer L.P., Augusta, Richmond	0	0	0	0	0	0	1,974,726	1,974,726	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Bowen Steam Electric Generating Plant, Cartersville, Bartow	0	0	0	0	0	0	19,500,943	19,500,943	0
Scherer Steam Electric Generating Plant, Juliette, Monroe	0	0	0	0	0	0	13,950,365	13,950,365	0
Wansley Steam Electric Generating Plant, Roopville, Heard	0	0	0	0	0	0	8,042,081	8,042,081	0
Branch Steam Electric Generating Plant, Milledgeville, Putnam	0	0	0	0	0	0	6,959,184	6,959,184	0
Yates Steam Electric Generating Plant, Newnan, Coweta	0	0	0	0	0	0	3,453,356	3,453,356	0
McDonough/Atkinson Steam Electric Generating Plant, Smyrna, Cobb	0	0	0	0	0	0	3,415,352	3,415,352	0
Hammond Steam Electric Generating Plant, Coosa, Floyd	0	0	0	0	0	0	1,822,978	1,822,978	0
Savannah Electric — Plant Mcintosh, Rincon, Effingham	0	0	0	0	0	0	496,291	496,291	0
Arkwright Steam Electric Generating Plant, Macon, Bibb	0	0	0	0	0	0	218,756	218,756	0
Mitchell Steam Electric Generating Plant, Albany, Dougherty	0	0	0	0	0	0	209,276	209,276	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

GUAM

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	0	11,058	11,058
Air Emissions	0	9,783	9,783
Surface Water Discharges	0	1,275	1,275
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	0	0	0
Off-site Releases (Transfers Off-site to Disposal)*	0	0	0
Total On- and Off-site Releases	0	11,058	11,058
Recycled On-site	0	0	0
Recycled Off-site	0	0	0
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	0	0	0
Treated On-site	0	0	0
Treated Off-site**	0	0	0
Quantity Released On- and Off-site***	0	11,624	11,624
Total Production-related Waste Managed	0	11,624	11,624
Total Non-production-related Waste Managed	0	0	0

Transfers Off-site for Further Waste Management/Disposal

Recycling	0	0	0
Energy Recovery	0	0	0
Treatment	0	0	0
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	0	0	0
Total Transfers Off-site for Further Waste Management/Disposal	0	0	0

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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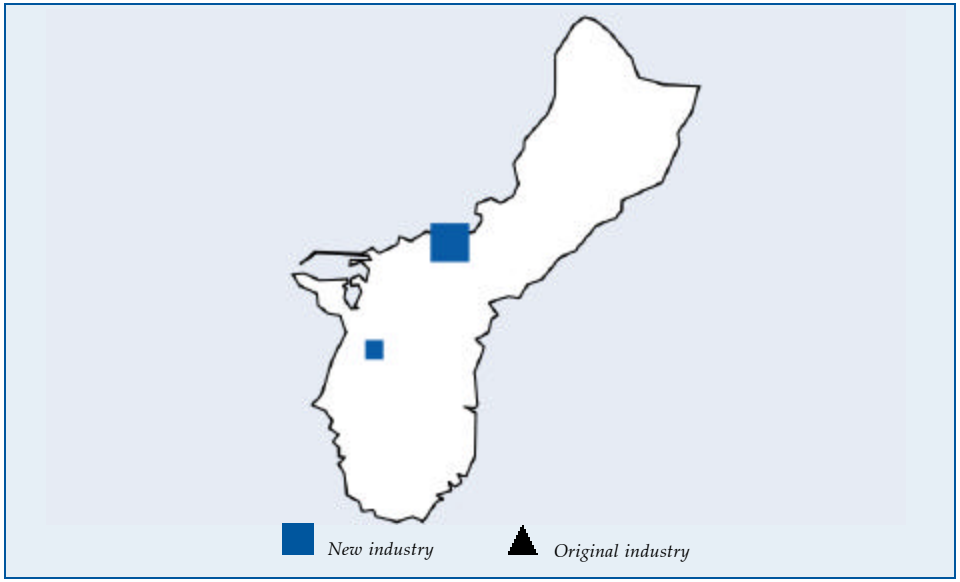

The largest marker in the state map represents the largest facility for on-site releases in Guam. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

State/TRI Data

Population	149,180
Square Miles	210
Total Facilities	2
Total Forms	6
Form As	1

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	—	53	55
Pounds	0	11,058	11,058
National Rank for Total On-site Releases**			
Rank	—	53	55
Pounds	0	11,058	11,058
National Rank for Total Releases within State***			
Rank	—	53	55
Pounds	0	11,058	11,058
National Rank for Production-related Waste Managed			
Rank	—	53	55
Pounds	0	11,624	11,624

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

GUAM

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
108-88-3	Toluene	7,041	255	0	0	0	7,296	0	0	0
110-54-3	n-Hexane	2,399	255	0	0	0	2,654	0	0	0
71-43-2	Benzene	249	255	0	0	0	504	0	0	0
1330-20-7	Xylene (mixed isomers)	73	255	0	0	0	328	0	0	0
100-41-4	Ethylbenzene	21	255	0	0	0	276	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

GUAM

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds
Mobil Oil Cabras Island Terminal, Agana, Guam	9,783	1275	0	0	0	0	11,058	0	0
U.S. Navy Public Works Center, Santa Rita, Guam	0	0	0	0	0	0	0	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

GUAM

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Mobil Oil Cabras Island Terminal, Agana, Guam	0	0	0	0	0	0	11,624	11,624	0
U.S. Navy Public Works Center, Santa Rita, Guam	0	0	0	0	0	0	0	0	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

1998 Toxics Release Inventory

HAWAII

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	415,656	3,189,429	3,605,085
Air Emissions	376,116	3,189,429	3,565,545
Surface Water Discharges	2,057	0	2,057
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	3,849	0	3,849
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	33,634	0	33,634
Off-site Releases (Transfers Off-site to Disposal)*	3,268	4,500	7,768
Total On- and Off-site Releases	418,924	3,193,929	3,612,853
Recycled On-site	0	0	0
Recycled Off-site	110,652	0	110,652
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	1,139	10	1,149
Treated On-site	3,568,243	0	3,568,243
Treated Off-site**	2,468	64	2,532
Quantity Released On- and Off-site***	435,396	3,190,791	3,626,187
Total Production-related Waste Managed	4,117,898	3,190,865	7,308,763
Total Non-production-related Waste Managed	0	6	6

Transfers Off-site for Further Waste Management/Disposal

Recycling	110,652	0	110,652
Energy Recovery	664	25	689
Treatment	2,954	545	3,499
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	20,175	4,500	24,675
Total Transfers Off-site for Further Waste Management/Disposal	134,445	5,070	139,515

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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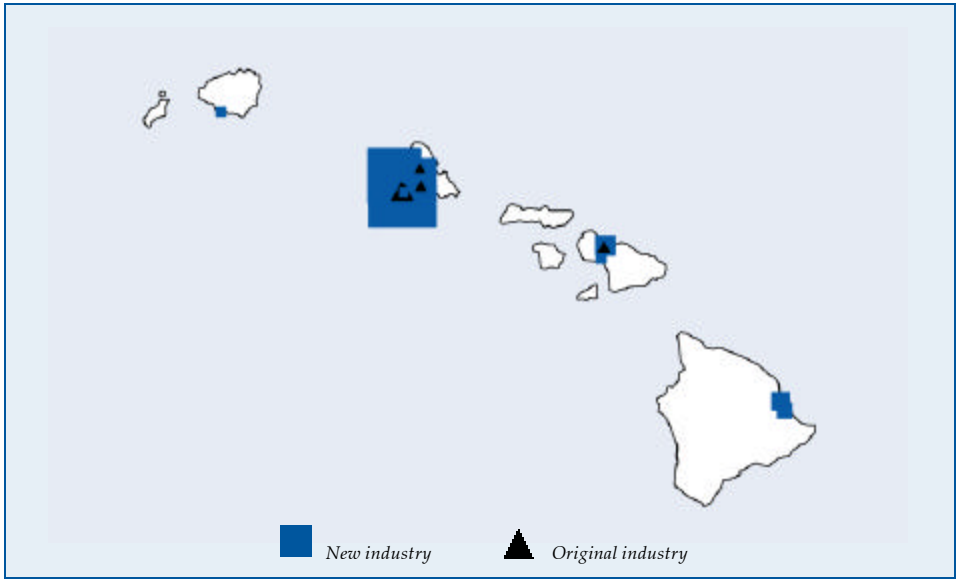
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Hawaii. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	1,193,001
Square Miles	6,423
Total Facilities	29
Total Forms	108
Form As	12

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	51	47	49
Pounds	418,924	3,193,929	3,612,853
National Rank for Total On-site Releases**			
Rank	51	47	49
Pounds	415,656	3,189,429	3,605,085
National Rank for Total Releases within State***			
Rank	51	47	49
Pounds	418,398	3,193,929	3,612,327
National Rank for Production-related Waste Managed			
Rank	50	47	51
Pounds	4,117,898	3,190,865	7,308,763

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

HAWAII

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
71-36-3	n-Butyl alcohol	67,046	0	0	0	900	67,946	0	900	0
115-07-1	Propylene	61,033	0	0	0	0	61,033	0	0	0
—	Glycol ethers	57,000	0	0	0	0	57,000	0	0	0
110-54-3	n-Hexane	51,204	240	0	0	14	51,458	0	14	0
7664-41-7	Ammonia	11,310	900	3,849	33,135	0	49,194	0	0	0
7664-93-9	Sulfuric acid	29,028	0	0	0	0	29,028	0	0	0
74-85-1	Ethylene	21,854	0	0	0	0	21,854	0	0	0
108-88-3	Toluene	15,425	0	0	0	116	15,541	0	116	0
1330-20-7	Xylene (mixed isomers)	13,327	0	0	0	1,318	14,645	0	1,318	0
71-43-2	Benzene	12,177	0	0	0	37	12,214	0	37	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	1,590,242	0	0	0	0	1,590,242	0	0	0
7647-01-0	Hydrochloric acid	1,415,685	0	0	0	0	1,415,685	0	0	0
—	Nickel compounds	58,904	0	0	0	4,500	63,404	0	4,500	0
7782-41-4	Fluorine	38,127	0	0	0	0	38,127	0	0	0
7664-41-7	Ammonia	30,064	0	0	0	0	30,064	0	0	0
108-88-3	Toluene	14,299	0	0	0	0	14,299	0	0	0
110-54-3	n-Hexane	12,878	0	0	0	0	12,878	0	0	0
95-63-6	1,2,4-Trimethylbenzene	8,436	0	0	0	0	8,436	0	0	0
71-43-2	Benzene	7,919	0	0	0	0	7,919	0	0	0
1330-20-7	Xylene (mixed isomers)	6,537	0	0	0	0	6,537	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

HAWAII

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Chevron Prods. Co. — Hawaii Refy., Kapolei, Honolulu	172,872	1,558	0	0	0	0	174,430	496	0
Ball Metal Beverage Container Corp., Kapolei, Honolulu	109,162	0	0	0	0	0	109,162	0	0
Tesoro Hawaii Refy., Kapolei, Honolulu	67,894	0	0	3,849	0	0	71,743	146	16,908
Maui Pineapple Co. Ltd., Kahului, Maui	0	0	0	0	0	33,135	33,135	0	0
U.S. Navy Pearl Harbor NSY & IMF, Pearl Harbor, Honolulu	26,168	0	0	0	0	0	26,168	2,100	0
U.S. Army Schofield Barracks & Wheeler Army Airfield, Wahiawa, Honolulu	20	499	0	0	0	499	1,018	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
AES Hawaii Inc., Kapolei, Honolulu	1,169,295	0	0	0	0	0	1,169,295	0	0
Kahe Generating Station, Waianae, Honolulu	888,329	0	0	0	0	0	888,329	0	0
Waiau Generating Station, Pearl City, Honolulu	338,556	0	0	0	0	0	338,556	0	0
Kahului Generating Station, Kahului, Maui	235,936	0	0	0	0	0	235,936	0	0
Hill Generating Station, Hilo, Hawaii	200,632	0	0	0	0	0	200,632	0	0
Puna Generating Station, Keaau, Hawaii	138,602	0	0	0	0	0	138,602	0	0
Shipman Generating Station, Hilo, Hawaii	60,242	0	0	0	0	0	60,242	0	0
Maalaea Generating Station, Wailuku, Maui	53,305	0	0	0	0	0	53,305	0	0
Tosco Distribution West Honolulu Terminal, Honolulu, Honolulu	37,140	0	0	0	0	0	37,140	0	0
Kauai Electric, Eleele, Kauai	30,425	0	0	0	0	0	30,425	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

HAWAII

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Chevron Prods. Co. — Hawaii Refy., Kapolei, Honolulu	0	0	0	0	220,403	2,468	174,761	397,632	0
Ball Metal Beverage Container Corp., Kapolei, Honolulu	0	0	0	0	54,000	0	109,164	163,164	0
Tesoro Hawaii Refy., Kapolei, Honolulu	0	100,019	0	1,139	3,292,925	0	88,793	3,482,876	0
Maui Pineapple Co. Ltd., Kahului, Maui	0	0	0	0	0	0	33,135	33,135	0
U.S. Navy Pearl Harbor NSY & IMF, Pearl Harbor, Honolulu	0	0	0	0	0	0	28,000	28,000	0
U.S. Army Schofield Barracks & Wheeler Army Airfield, Wahiawa, Honolulu	0	10,633	0	0	0	0	1,018	11,651	0
Hawaii Wood Preserving Co., Kahului, Maui	0	0	0	0	0	0	525	525	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
AES Hawaii Inc., Kapolei, Honolulu	0	0	0	0	0	0	1,169,295	1,169,295	0
Kahe Generating Station, Waianae, Honolulu	0	0	0	0	0	0	888,329	888,329	0
Waiau Generating Station, Pearl City, Honolulu	0	0	0	0	0	0	338,556	338,556	0
Kahului Generating Station, Kahului, Maui	0	0	0	0	0	0	235,936	235,936	0
Hill Generating Station, Hilo, Hawaii	0	0	0	0	0	0	200,632	200,632	0
Puna Generating Station, Keaau, Hawaii	0	0	0	0	0	0	138,602	138,602	0
Shipman Generating Station, Hilo, Hawaii	0	0	0	0	0	0	60,242	60,242	0
Maalaea Generating Station, Wailuku, Maui	0	0	0	0	0	0	53,305	53,305	0
Tosco Distribution West Honolulu Terminal, Honolulu, Honolulu	0	0	0	0	0	0	36,020	36,020	0
Kauai Electric, Eleele, Kauai	0	0	0	0	0	0	30,390	30,390	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

1998 Toxics Release Inventory

IDAHO

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	22,489,821	76,876,662	99,366,483
Air Emissions	6,250,363	51,382	6,301,745
Surface Water Discharges	5,575,048	7,924	5,582,972
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	31,641,000	31,641,000
Other On-site Land Releases	10,664,410	45,176,356	55,840,766
Off-site Releases (Transfers Off-site to Disposal)*	214,892	73	214,965
Total On- and Off-site Releases	22,704,713	76,876,735	99,581,448
Recycled On-site	3,568,753	1,730	3,570,483
Recycled Off-site	2,119,253	610	2,119,863
Energy Recovery On-site	31,000	0	31,000
Energy Recovery Off-site	158,899	0	158,899
Treated On-site	22,561,924	157,400	22,719,324
Treated Off-site**	796,900	699	797,599
Quantity Released On- and Off-site***	22,762,659	76,913,008	99,675,667
Total Production-related Waste Managed	51,999,388	77,073,447	129,072,835
Total Non-production-related Waste Managed	3,148	106	3,254

Transfers Off-site for Further Waste Management/Disposal

Recycling	2,080,693	615	2,081,308
Energy Recovery	159,139	0	159,139
Treatment	58,807	702	59,509
Publicly Owned Treatment Works (POTWs)	820,264	0	820,264
Metals and Metal Compounds*	472	0	472
Non-metal TRI Chemicals**	819,792	0	819,792
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	260,630	73	260,703
Total Transfers Off-site for Further Waste Management/Disposal	3,379,533	1,390	3,380,923

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code*

For More Information . . .

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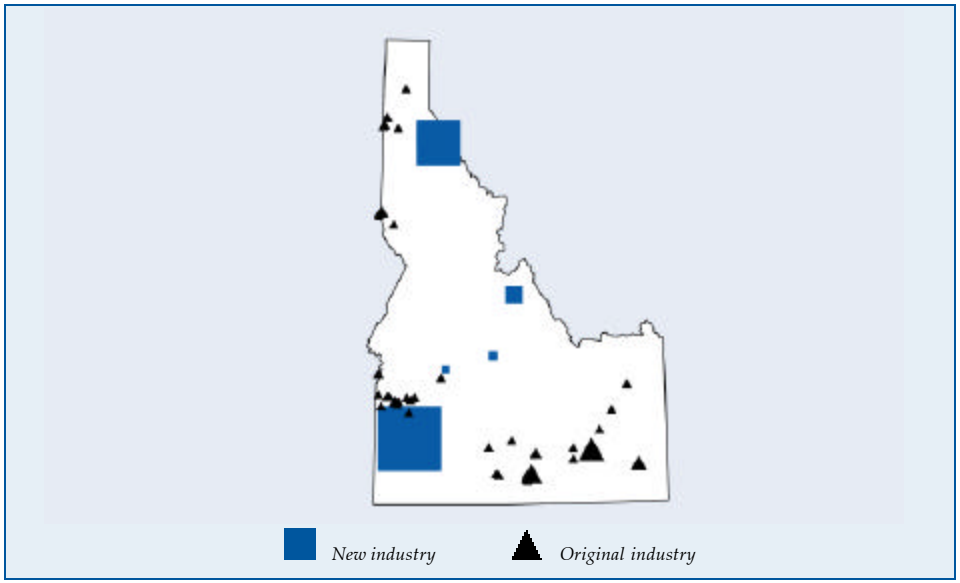
To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Idaho. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	1,228,684
Square Miles	82,751
Total Facilities	74
Total Forms	273
Form As	33

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	32	10	23
Pounds	22,704,713	76,876,735	99,581,448
National Rank for Total On-site Releases**			
Rank	29	8	19
Pounds	22,489,821	76,876,662	99,366,483
National Rank for Total Releases within State***			
Rank	32	10	23
Pounds	23,432,256	77,029,788	100,462,044
National Rank for Production-related Waste Managed			
Rank	43	20	39
Pounds	51,999,388	77,073,447	129,072,835

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site*

1998 Toxics Release Inventory

IDAHO

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Nitrate compounds	0	5,520,839	0	153,053	1,045	5,674,937	0	0	1,045
—	Zinc compounds	68,110	4,650	0	4,351,200	1,670	4,425,630	14,234,018	0	1,670
7664-41-7	Ammonia	3,226,554	2,487	0	262,902	255	3,492,198	0	255	0
7723-14-0	Phosphorus (yellow or white)	320	0	0	2,272,970	0	2,273,290	0	0	0
—	Chromium compounds	8,535	15	0	1,135,190	5	1,143,745	97,662	0	5
67-56-1	Methanol	814,600	36,800	0	20,500	0	871,900	0	0	0
7664-38-2	Phosphoric acid	6,865	0	0	530,282	5	537,152	0	5	0
—	Cadmium compounds	4,053	15	0	468,160	250	472,478	0	0	250
—	Manganese compounds	1,638	65	0	416,270	0	417,973	1,995,363	0	0
108-88-3	Toluene	332,904	0	0	0	0	332,904	1,559	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Manganese compounds	364	3,273	0	26,727,055	0	26,730,692	0	0	0
7440-66-6	Zinc (fume or dust)	7,900	0	0	24,000,000	5	24,007,905	29,000	0	5
—	Lead compounds	801	1,146	0	6,493,939	33	6,495,919	9,419	0	33
—	Arsenic compounds	1,599	305	0	6,266,571	0	6,268,475	0	0	0
7439-92-1	Lead	1,000	0	0	4,200,000	10	4,201,010	2,800	5	5
—	Zinc compounds	42	1,015	0	4,160,069	0	4,161,126	0	0	0
7439-96-5	Manganese	1,000	0	0	1,600,000	5	1,601,005	3,900	5	0
7440-38-2	Arsenic	511	15	0	647,000	5	647,531	0	0	5
7440-50-8	Copper	500	0	0	580,000	5	580,505	250	0	5
—	Antimony compounds	24	876	0	405,335	0	406,235	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

IDAHO

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
FMC Corp., Pocatello, Power	276,766	1,215	0	0	0	6,955,260	7,233,241	0	2,210
J. R. Simpolot Co., Heyburn Food Group, Heyburn, Minidoka	24,700	5,020,192	0	0	0	0	5,044,892	0	0
P4 Production L.L.C., Soda Springs, Caribou	185,237	295	0	0	0	2,513,270	2,698,802	0	0
Potlach Corp. Idaho Pulp & Paperboard Div., Lewiston, Nez Perce	1,265,770	51,295	0	0	0	241,920	1,558,985	0	0
J. R. Simplot Co. Don Siding, Pocatello, Power	543,850	0	0	0	0	530,000	1,073,850	0	0
Amalgamated Sugar Co. L.L.C., Paul, Minidoka	1,037,388	0	0	0	0	2,278	1,039,666	0	0
Amalgamated Sugar Co. LLC, Nampa, Canyon	900,204	0	0	0	0	13,458	913,662	0	0
Woodgrain Millwork Inc., Millwork & Prefinish Divisions, Fruitland, Payette	655,507	0	0	0	0	0	655,507	0	0
McCain Foods USA, Burley, Cassia	32,105	500,882	0	0	0	0	532,987	0	0
Amalgamated Sugar Co. LLC, Twin Falls, Twin Falls	484,525	0	0	0	0	5,985	490,510	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Envirosafe Services of Idaho Inc., Grand View, Owyhee	12,465	0	0	0	31,641,000	0	31,653,465	10	30
Hecla Mining Co. Lucky Friday Mine, Mullan, Shoshone	402	3,547	0	0	0	20,859,662	20,863,611	0	33
Silver Valley Resources Corp., Wallace, Shoshone	246	744	0	0	0	11,080,438	11,081,428	0	0
Sunshine Mine, Kellogg, Shoshone	650	2,330	0	0	0	6,821,905	6,824,885	0	0
Meridian Gold Co. Beartrack Mine, Salmon, Lemhi	1,578	82	0	0	0	5,547,271	5,548,931	0	0
Thompson Creek Mining Co., Thompson Creek Mine, Clayton, Custer	5,817	1,221	0	0	0	867,080	874,118	0	0
Northwest Terminalling Co. (Boise), Boise, Boise	30,224	0	0	0	0	0	30,224	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

IDAHO

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
FMC Corp., Pocatello, Power	0	0	0	0	1,064,000	6	7,234,981	8,298,987	0
J. R. Simpolot Co., Heyburn Food Group, Heyburn, Minidoka	0	0	0	0	0	0	5,044,892	5,044,892	0
P4 Production L.L.C., Soda Springs, Caribou	0	0	0	0	3,622,000	0	2,723,240	6,345,240	0
Potlach Corp. Idaho Pulp & Paperboard Div., Lewiston, Nez Perce	0	0	31,000	0	10,055,500	0	1,557,866	11,644,366	0
J. R. Simplot Co. Don Siding, Pocatello, Power	0	0	0	0	0	400	1,073,850	1,074,250	1,983
Amalgamated Sugar Co. L.L.C., Paul, Minidoka	0	0	0	0	24,736	0	1,039,666	1,064,402	0
Amalgamated Sugar Co. LLC, Nampa, Canyon	0	0	0	0	8,098	7,897	922,757	938,752	0
Woodgrain Millwork Inc., Millwork & Prefinish Divisions, Fruitland, Payette	0	0	0	110,329	0	0	655,507	765,836	0
McCain Foods USA, Burley, Cassia	0	0	0	0	780,214	0	532,992	1,313,206	10
Amalgamated Sugar Co. LLC, Twin Falls, Twin Falls	0	0	0	0	0	0	490,510	490,510	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Envirosafe Services of Idaho Inc., Grand View, Owyhee	0	0	0	0	0	0	31,641,000	31,641,000	0
Hecla Mining Co. Lucky Friday Mine, Mullan, Shoshone	0	610	0	0	0	0	20,863,644	20,864,254	7
Silver Valley Resources Corp., Wallace, Shoshone	0	0	0	0	0	0	11,081,427	11,081,427	0
Sunshine Mine, Kellogg, Shoshone	0	0	0	0	0	0	6,873,800	6,873,800	0
Meridian Gold Co.Beartrack Mine, Salmon, Lemhi	1,730	0	0	0	0	0	5,548,897	5,550,627	0
Thompson Creek Mining Co., Thompson Creek Mine, Clayton, Custer	0	0	0	0	0	0	874,000	874,000	0
Northwest Terminalling Co. (Boise), Boise, Boise	0	0	0	0	157,400	699	30,240	188,339	99

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

ILLINOIS

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	84,728,639	61,660,627	146,389,266
Air Emissions	58,775,372	32,371,626	91,146,998
Surface Water Discharges	6,264,554	45,706	6,310,260
Underground Injection Class I Wells	250	0	250
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	9,286,090	21,607,926	30,894,016
Other On-site Land Releases	10,402,373	7,635,369	18,037,742
Off-site Releases (Transfers Off-site to Disposal)*	17,712,630	5,195,655	22,908,285
Total On- and Off-site Releases	102,441,269	66,856,282	169,297,551
Recycled On-site	1,327,391,943	8,269,263	1,335,661,206
Recycled Off-site	91,148,220	961,152	92,109,372
Energy Recovery On-site	43,023,655	0	43,023,655
Energy Recovery Off-site	24,961,812	13,559,584	38,521,396
Treated On-site	186,856,266	42,737,604	229,593,870
Treated Off-site**	16,836,814	3,358,626	20,195,440
Quantity Released On- and Off-site***	111,580,789	67,067,246	178,648,035
Total Production-related Waste Managed	1,801,799,499	135,953,475	1,937,752,974
Total Non-production-related Waste Managed	199,733	348,574	548,307

Transfers Off-site for Further Waste Management/Disposal

Recycling	90,514,364	961,927	91,476,291
Energy Recovery	21,320,732	13,561,345	34,882,077
Treatment	9,324,564	3,003,015	12,327,579
Publicly Owned Treatment Works (POTWs)	9,639,449	498,946	10,138,395
Metals and Metal Compounds*	729,528	8,888	738,416
Non-metal TRI Chemicals**	8,909,921	490,058	9,399,979
Other Off-site Transfers****	163,671	0	163,671
Off-site Transfers to Disposal *(not including metals to POTWs)*	31,024,928	5,444,100	36,469,028
Total Transfers Off-site for Further Waste Management/Disposal	161,987,708	23,469,333	185,457,041

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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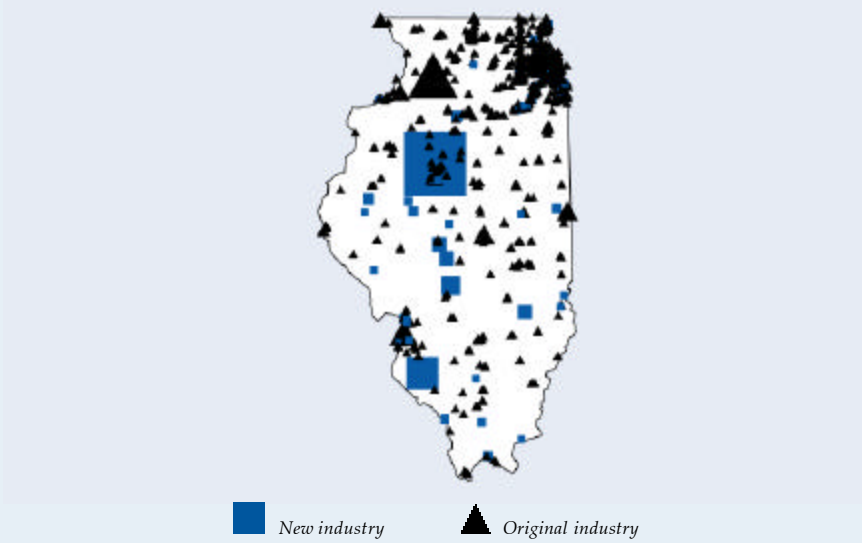

The largest marker in the state map represents the largest facility for on-site releases in the state of Illinois. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	12,045,326
Square Miles	55,593
Total Facilities	1,344
Total Forms	4,876
Form As	778

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	6	14	11
Pounds	102,441,269	66,856,282	169,297,551
National Rank for Total On-site Releases**			
Rank	7	14	10
Pounds	84,728,639	61,660,627	146,389,266
National Rank for Total Releases within State***			
Rank	6	14	11
Pounds	104,812,091	66,506,499	171,318,590
National Rank for Production-related Waste Managed			
Rank	3	10	3
Pounds	1,801,799,499	135,953,475	1,937,752,974

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

ILLINOIS

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Zinc compounds	696,448	12,979	250	12,280,599	8,449,224	21,439,500	11,296,630	11,813,829	4,005,123
110-54-3	n-Hexane	10,137,410	4,358	0	1,408	109	10,143,285	250	100	9
7664-41-7	Ammonia	6,878,779	52,980	0	40,318	279,408	7,251,485	290	7,560	271,848
—	Manganese compounds	76,435	4,226	0	4,568,413	2,579,585	7,228,659	1,911,325	2,318,468	871,415
—	Nitrate compounds	29,941	6,080,909	0	213	41,897	6,152,960	2,792	897	41,000
75-15-0	Carbon disulfide	4,414,278	1,637	0	1,650	15	4,417,580	0	15	0
108-88-3	Toluene	4,297,167	521	0	1,520	24,109	4,323,317	26,888	16,593	7,516
85-44-9	Phthalic anhydride	147,993	0	0	0	3,764,734	3,912,727	0	3,757,674	7,060
7664-93-9	Sulfuric acid	2,605,436	0	0	0	897,969	3,503,405	6,005	0	897,969
7647-01-0	Hydrochloric acid	3,153,368	0	0	0	750	3,154,118	250	750	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	21,892,835	0	0	0	0	21,892,835	0	0	0
—	Zinc compounds	106,732	2,591	0	18,498,316	1,232,433	19,840,072	11,485	1,019,932	223,778
7664-93-9	Sulfuric acid	6,124,164	0	0	0	0	6,124,164	0	0	0
—	Barium compounds	273,432	25,367	0	3,504,015	691,930	4,494,744	14,267	691,425	505
—	Manganese compounds	30,849	7,624	0	3,562,030	801,237	4,401,740	8	782,357	22,664
7664-39-3	Hydrogen fluoride	3,512,061	0	0	0	773	3,512,834	0	259	514
—	Lead compounds	4,484	9	0	1,777,186	378,491	2,160,170	106,830	372,315	17,112
—	Chromium compounds	7,585	954	0	558,230	903,452	1,470,221	16,680	720,798	193,363
—	Copper compounds	7,453	5,876	0	527,083	468,864	1,009,276	4,285	458,674	23,878
—	Nickel compounds	6,934	426	0	310,369	487,870	805,599	1,362	361,426	126,444

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

ILLINOIS

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Northwestern Steel & Wire Co., Sterling, Whiteside	124,640	18,410	0	0	9,140,000	3,513,000	12,796,050	186,000	0
Granite City Steel, Granite City, Madison	191,216	17,323	0	0	0	5,763,304	5,971,843	0	593
Devro-Teepak Inc., Danville, Vermilion	3,761,319	0	0	0	0	1,650	3,762,969	0	0
ADM Bioproducts, Decatur, Macon	3,500,000	0	0	0	0	0	3,500,000	0	0
IBP Inc., Joslin, Rock Island	33,080	3,202,500	0	0	0	2,210	3,237,790	12,910	9,100
Williams Ethanol Services Inc., Pekin, Tazewell	334,323	2,230,256	0	0	0	0	2,564,579	0	0
Royster-Clark Nitrogen, East Dubuque, Jo Daviess	2,373,415	52,623	0	0	0	0	2,426,038	0	0
Equistar Chemicals L.P., Morris, Grundy	2,014,330	5	0	0	0	10	2,014,345	0	0
Equilon Wood River Refining Co., Roxana, Madison	1,823,714	48,532	0	0	0	0	1,872,246	28,684	305
ADM, Decatur, Macon	1,821,925	0	0	0	0	0	1,821,925	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases * Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Peoria Disposal Co. #1, Peoria, Peoria	542	10	0	0	21,600,700	0	21,601,252	6,805	10
Baldwin Power Station, Baldwin, Randolph	8,450,555	0	0	0	0	1,146,900	9,597,455	0	0
Ameren Corp.Coffeen Power Station, Coffeen, Montgomery	4,513,765	789	0	0	0	0	4,514,554	292,300	0
E. D. Edwards Station, Bartonville, Peoria	2,797,508	0	0	0	0	42,715	2,840,223	437,293	0
City Water Light & Power City of Springfield, Springfield, Sangamon	2,785,444	0	0	0	0	26,000	2,811,444	0	0
Dominion Resources Inc. Kincaid Generation L.L.C., Kincaid, Christian	2,617,278	0	0	0	0	73,960	2,691,238	664,000	0
Ameren Corp. Newton Power Station, Newton, Jasper	1,131,344	936	0	0	0	1,515,000	2,647,280	0	0
Illinova Corp. Hennepin Power Station, Hennepin, Putnam	1,253,270	1,590	0	0	0	208,000	1,462,860	0	0
Freeman United Coal Mining Co. Industry Mine, Industry, Mc Donough	20	0	0	0	0	1,353,552	1,353,572	0	0
Ameren Corp. Meredosia Power Station, Kilbourne, Mason	970,911	1,227	0	0	0	91,000	1,063,138	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

ILLINOIS

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Northwestern Steel & Wire Co., Sterling, Whiteside	0	0	0	0	720,000	186,000	12,798,800	13,704,800	0
Granite City Steel, Granite City, Madison	0	0	0	0	1,889,493	4,966	5,971,843	7,866,302	0
Keystone Steel & Wire Co., Peoria, Peoria	0	760,000	0	0	0	0	5,299,000	6,059,000	25,700
Birmingham Steel Corp., Kankakee Illinois Steel Div., Bourbonnais, Kankakee	0	0	0	0	0	0	5,052,578	5,052,578	0
Koppers Inds. Inc., Cicero, Cook	932,081	0	0	1,245	14,526,838	21,749	4,144,367	19,626,280	0
Devro-Teepak Inc., Danville, Vermilion	0	0	0	0	0	36,920	3,761,308	3,798,228	0
ADM Bioproducts, Decatur, Macon	55,000,000	3,100,000	0	0	0	500,000	3,500,000	62,100,000	0
IBP Inc., Joslin, Rock Island	0	9,100	0	0	272,000	0	3,254,320	3,535,420	16
Williams Ethanol Services Inc., Pekin, Tazewell	0	0	0	0	179,183	0	2,564,447	2,743,630	2,916
Royster-Clark Nitrogen, East Dubuque, Jo Daviess	0	0	0	0	0	0	2,410,260	2,410,260	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Peoria Disposal Co. #1, Peoria, Peoria	0	0	0	0	0	0	21,600,700	21,600,700	0
Baldwin Power Station, Baldwin, Randolph	0	0	0	0	5,730,000	0	9,588,900	15,318,900	3
Ameren Corp.Coffeen Power Station, Coffeen, Montgomery	0	0	0	0	1,402,700	0	4,806,000	6,208,700	0
Dominion Resources Inc. Kincaid Generation L.L.C., Kincaid, Christian	0	0	0	0	668,000	0	3,359,000	4,027,000	0
E. D. Edwards Station, Bartonville, Peoria	0	0	0	0	950,433	0	3,277,513	4,227,946	0
City Water Light & Power City of Springfield, Springfield, Sangamon	0	0	0	0	2,660,000	0	2,812,000	5,472,000	0
Ameren Corp. Newton Power Station, Newton, Jasper	0	0	0	0	830,000	0	2,634,000	3,464,000	0
Envirite of Illinois Inc., Harvey, Cook	0	11,400	0	0	60,000	0	2,118,001	2,189,401	0
Illinova Corp. Hennepin Power Station, Hennepin, Putnam	0	0	0	0	959,000	0	1,462,000	2,421,000	0
Freeman United Coal Mining Co. Industry Mine, Industry, Mc Donough	0	0	0	0	0	0	1,353,552	1,353,552	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

INDIANA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	70,376,758	62,636,434	133,013,192
Air Emissions	52,797,207	44,596,445	97,393,652
Surface Water Discharges	2,117,917	315,138	2,433,055
Underground Injection Class I Wells	1,039,913	0	1,039,913
Underground Injection Class II-V Wells	0	480	480
On-site Land Releases to RCRA Subtitle C Landfills	1,172,555	1,262,263	2,434,818
Other On-site Land Releases	13,249,166	16,462,108	29,711,274
Off-site Releases (Transfers Off-site to Disposal)*	44,514,171	11,948,207	56,462,378
Total On- and Off-site Releases	114,890,929	74,584,641	189,475,570
Recycled On-site	164,005,314	10,290,550	174,295,864
Recycled Off-site	197,221,070	859,401	198,080,471
Energy Recovery On-site	149,035,099	0	149,035,099
Energy Recovery Off-site	12,679,271	80,952,128	93,631,399
Treated On-site	135,790,062	42,907,435	178,697,497
Treated Off-site**	16,302,192	262,034	16,564,226
Quantity Released On- and Off-site***	119,296,537	76,269,556	195,566,093
Total Production-related Waste Managed	794,329,545	211,541,104	1,005,870,649
Total Non-production-related Waste Managed	297,556	16,439	313,995

Transfers Off-site for Further Waste Management/Disposal

Recycling	179,262,857	854,362	180,117,219
Energy Recovery	12,858,234	71,853,378	84,711,612
Treatment	8,349,125	4,626,082	12,975,207
Publicly Owned Treatment Works (POTWs)	6,744,659	33,773	6,778,432
Metals and Metal Compounds*	162,462	3,973	166,435
Non-metal TRI Chemicals**	6,582,197	29,800	6,611,997
Other Off-site Transfers****	9,067	0	9,067
Off-site Transfers to Disposal *(not including metals to POTWs)*	50,401,789	12,548,229	62,950,018
Total Transfers Off-site for Further Waste Management/Disposal	257,625,731	89,915,824	347,541,555

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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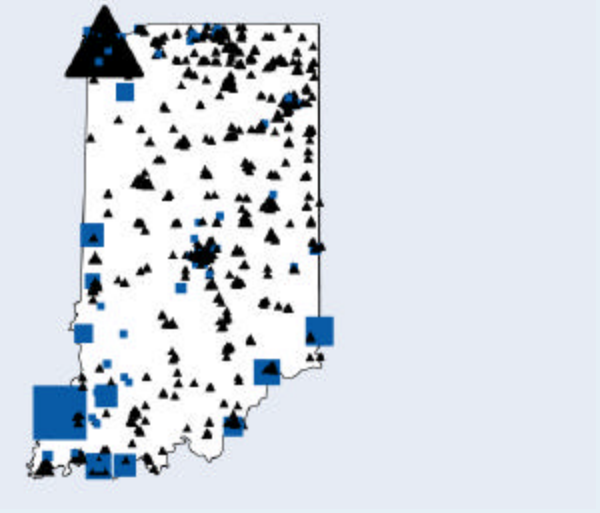


New industry *Original industry*

The largest marker in the state map represents the largest facility for on-site releases in the state of Indiana. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	5,899,195
Square Miles	35,870
Total Facilities	1,071
Total Forms	3,997
Form As	500

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	5	12	9
Pounds	114,890,929	74,584,641	189,475,570
National Rank for Total On-site Releases**			
Rank	11	13	12
Pounds	70,376,758	62,636,434	133,013,192
National Rank for Total Releases within State***			
Rank	5	12	10
Pounds	107,351,796	74,154,491	181,506,287
National Rank for Production-related Waste Managed			
Rank	8	8	10
Pounds	794,329,545	211,541,104	1,005,870,649

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

INDIANA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal * Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Zinc compounds	336,932	55,917	0	9,831,139	30,817,422	41,041,410	438,726	21,048,509	9,768,913
—	Manganese compounds	134,778	20,315	5,100	2,205,161	5,131,679	7,497,033	34,345	3,566,548	1,565,131
108-88-3	Toluene	6,123,699	345	0	3,683	136,417	6,264,144	3,062	124,730	14,985
100-42-5	Styrene	5,457,372	255	0	9,005	135,744	5,602,376	3,334	133,481	2,320
7664-41-7	Ammonia	4,079,116	61,898	834,813	12,986	222,492	5,211,305	670	93,306	129,186
1330-20-7	Xylene (mixed isomers)	4,733,400	527	0	3,525	137,094	4,874,546	8,418	52,924	86,560
75-09-2	Dichloromethane	4,623,764	639	0	5	352	4,624,760	4,078	1,108	44
110-54-3	n-Hexane	3,639,848	1,065	0	375	393	3,641,681	1,493	393	0
—	Lead compounds	20,045	5,698	0	284,818	3,100,974	3,411,535	192,276	2,042,101	1,058,890
78-93-3	Methyl ethyl ketone	3,066,441	0	0	2,240	40,149	3,108,830	1,807	15,764	28,795

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	25,763,058	0	0	0	0	25,763,058	0	0	0
7664-93-9	Sulfuric acid	15,104,491	0	0	20,000	0	15,124,491	0	0	0
—	Barium compounds	27,028	56,823	0	5,832,486	392,139	6,308,476	12,777	293,730	98,409
—	Zinc compounds	24,293	50,235	0	2,904,460	3,194,759	6,173,747	55,253	3,122,012	72,747
7440-02-0	Nickel	260	760	0	18,500	4,124,529	4,144,049	210,000	3,007,040	1,122,711
7664-39-3	Hydrogen fluoride	3,254,756	0	0	0	0	3,254,756	0	0	0
—	Copper compounds	7,574	22,160	0	2,153,618	23,265	2,206,617	3,862	23,260	5
—	Manganese compounds	17,558	65,109	0	1,871,005	83,130	2,036,802	925	83,130	0
7440-50-8	Copper	10	38	0	0	1,877,287	1,877,335	100,000	1,820,632	56,657
—	Nickel compounds	14,575	35,148	0	1,573,340	56,920	1,679,983	812	56,920	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

INDIANA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
USS Gary Works, Gary, Lake	3,427,294	28,402	0	0	0	11,222,163	14,677,859	412,743	404,822
General Electric Plastics Co., Mount Vernon, Posey	2,262,276	161,286	0	0	0	25	2,423,587	301,445	3,248
Alcoa Warrick Ops., Newburgh, Warrick	2,256,199	105,165	0	0	0	26,782	2,388,146	185,000	35,000
Amoco Oil Co., Whiting Refy., Whiting, Lake	1,961,942	104,288	0	0	0	3,784	2,070,014	206,242	73,122
Bethlehem Steel Corp., Burns Harbor Div., Burns Harbor, Porter	369,135	93,500	695,100	0	0	467,250	1,624,985	0	65,230
Allegheny Ludlum Corp., New Castle, Henry	3,470	1,305,410	0	0	0	0	1,308,880	621,000	14,050
Gmtg Fort Wayne Assembly, Fort Wayne, Allen	1,144,074	0	0	0	0	0	1,144,074	210	1,900
Cargill Inc., Lafayette, Tippecanoe	1,140,584	0	0	0	0	0	1,140,584	0	0
Beta Steel Corp., Portage, Porter	6,125	0	0	0	938,300	124,825	1,069,250	1,925	1,061,200
Subaru-Isuzu Automotive Inc., Lafayette, Tippecanoe	1,061,943	0	0	0	0	0	1,061,943	8,650	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
PSI Gibson Generating Station, Princeton, Gibson	8,128,647	0	0	0	0	4,266,710	12,395,357	0	2
Tanners Creek Plant, Lawrenceburg, Dearborn	5,043,274	10,567	0	0	0	634,045	5,687,886	0	1,141
Alcoa Generating Corp./Sigeco, Warrick Power Plant, Newburgh, Warrick	4,012,531	625	0	0	0	1,019,045	5,032,201	7,360	0
Clifty Creek Station, Madison, Jefferson	4,199,470	8,662	0	0	0	760,685	4,968,817	0	0
PSI-Cayuga Generating Station, Cayuga, Vermillion	3,156,020	202,000	0	0	0	979,045	4,337,065	0	0
Indianapolis Power & Light Co., Petersburg Generating Station, Petersburg, Pike	2,784,783	22,571	0	0	0	1,284,550	4,091,904	218,305	0
Rockport Plant, Rockport, Spencer	2,228,121	13,217	0	0	0	1,766,945	4,008,283	0	2,402
PSI-Energy — Gallagher Generating Station, New Albany, Floyd	2,901,835	502	0	0	0	238,020	3,140,357	0	0
Northern Indiana Public Service Co. — R.M. Schahfer Gen. Sta., Wheatfield, Jasper	1,264,271	19,000	0	0	5,000	1,671,790	2,960,061	0	0
Merom Generating Station, Sullivan, Sullivan	1,294,991	799	0	0	0	1,580,000	2,875,790	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

INDIANA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Nucor Steel, Crawfordsville, Montgomery	0	19,418	0	0	606,833	0	19,569,540	20,195,791	0
USS Gary Works, Gary, Lake	3,740,037	4,426,077	13,476,224	0	54,827	0	15,495,424	37,192,589	0
Steel Dynamics Inc., Butler, De Kalb	0	0	0	0	0	0	10,260,615	10,260,615	0
General Electric Plastics Co., Mount Vernon, Posey	0	26,000	310,000	252,420	30,204,031	119,586	2,737,379	33,649,416	0
Alcoa Warrick Ops., Newburgh, Warrick	13,817,400	353,300	4,696,500	8,954	1,598,500	35,614	2,606,049	23,116,317	0
Amoco Oil Co., Whiting Refy., Whiting, Lake	119,986	32,721	0	244,900	14,067,882	115,865	2,360,773	16,942,127	0
Quemetco Inc., Indianapolis, Marion	0	0	0	0	0	0	2,176,000	2,176,000	269,100
Allegheny Ludlum Corp., New Castle, Henry	1,420,000	9,280	0	0	4,200,000	0	1,929,470	7,558,750	0
Bethlehem Steel Corp., Burns Harbor Div., Burns Harbor, Porter	2,574,000	0	0	0	54,800	0	1,651,722	4,280,522	383
I/N Kote, New Carlisle, St Joseph	0	0	0	0	0	0	1,270,000	1,270,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
PSI Gibson Generating Station, Princeton, Gibson	0	0	0	0	11,040,000	0	12,379,000	23,419,000	16
Crystal Clean Services L.L.C., Indianapolis, Marion	0	0	0	0	1,375,000	8,200	6,905,000	8,288,200	0
Heritage Environmental Services L.L.C., Indianapolis, Marion	0	0	0	0	1,375,000	8,200	5,906,900	7,290,100	0
Tanners Creek Plant, Lawrenceburg, Dearborn	0	165,600	0	0	200,000	0	5,685,900	6,051,500	0
Alcoa Generating Corp./Sigeco, Warrick Power Plant, Newburgh, Warrick	0	0	0	28	0	38	5,025,000	5,025,066	0
Clifty Creek Station, Madison, Jefferson	0	0	0	0	1,200,000	0	4,964,500	6,164,500	0
PSI-Cayuga Generating Station, Cayuga, Vermillion	0	0	0	0	1,424,400	0	4,329,000	5,753,400	12
Indianapolis Power & Light Co., Petersburg Generating Station, Petersburg, Pike	0	15	0	0	7,606,705	0	4,310,209	11,916,929	0
Rockport Plant, Rockport, Spencer	0	124,500	0	0	190,000	0	4,024,000	4,338,500	0
PSI-Energy — Gallagher Generating Station, New Albany, Floyd	0	0	0	0	788,200	0	3,140,000	3,928,200	7

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

IOWA

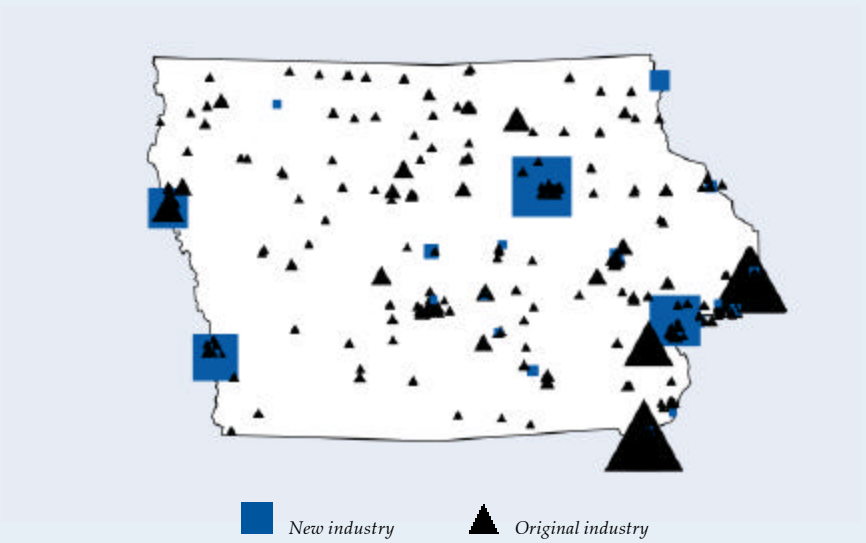
Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	30,975,808	12,682,895	43,658,703
Air Emissions	25,575,473	8,720,416	34,295,889
Surface Water Discharges	3,118,336	14,967	3,133,303
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	336,491	0	336,491
Other On-site Land Releases	1,945,508	3,947,512	5,893,020
Off-site Releases (Transfers Off-site to Disposal)*	4,319,410	1,040,956	5,360,366
Total On- and Off-site Releases	35,295,218	13,723,851	49,019,069
Recycled On-site	187,987,387	59,264	188,046,651
Recycled Off-site	51,296,173	520,254	51,816,427
Energy Recovery On-site	1,302,522	0	1,302,522
Energy Recovery Off-site	3,698,314	71,671	3,769,985
Treated On-site	44,900,575	210,104	45,110,679
Treated Off-site**	11,046,771	4,624	11,051,395
Quantity Released On- and Off-site***	38,189,865	12,903,136	51,093,001
Total Production-related Waste Managed	338,421,607	13,769,053	352,190,660
Total Non-production-related Waste Managed	1,232,058	136,526	1,368,584

Transfers Off-site for Further Waste Management/Disposal

Recycling	50,624,824	520,284	51,145,108
Energy Recovery	3,543,780	70,367	3,614,147
Treatment	4,557,151	2,042	4,559,193
Publicly Owned Treatment Works (POTWs)	6,945,081	0	6,945,081
Metals and Metal Compounds*	256,579	0	256,579
Non-metal TRI Chemicals**	6,688,502	0	6,688,502
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	8,868,607	1,040,956	9,909,563
Total Transfers Off-site for Further Waste Management/Disposal	74,539,443	1,633,649	76,173,092

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*



The largest marker in the state map represents the largest facility for on-site releases in the state of Iowa. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data†

Population	2,862,447
Square Miles	55,875
Total Facilities	442
Total Forms	1,433
Form As	217

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	24	33	30
Pounds	35,295,218	13,723,851	49,019,069
National Rank for Total On-site Releases**			
Rank	23	33	30
Pounds	30,975,808	12,682,895	43,658,703
National Rank for Total Releases within State***			
Rank	25	33	30
Pounds	32,390,095	13,714,518	46,104,613
National Rank for Production-related Waste Managed			
Rank	23	41	27
Pounds	338,421,607	13,769,053	352,190,660

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

For More Information . . .

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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347

†*One facility, George Neal South in Sioux City, Iowa was incorrectly located in Minnesota. It reported 1.3 million pounds released on-site and total production-related waste managed. Adding this facility to Iowa totals changes the national rank for total on-site releases for new industries from 33 to 32 and for production-related waste managed for new industries from 41 to 40.*

1998 Toxics Release Inventory

IOWA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	5,810,792	193,165	0	1,750	129,781	6,135,488	16,578	129,461	320
110-54-3	n-Hexane	4,681,695	382	0	0	0	4,682,077	0	0	0
—	Zinc compounds	96,513	2,425	0	194,394	4,353,701	4,647,033	30,703	174,898	4,179,053
—	Nitrate compounds	26,255	2,879,420	0	1,074	5,400	2,912,149	0	0	5,400
74-85-1	Ethylene	2,161,600	0	0	0	0	2,161,600	0	0	0
1330-20-7	Xylene (mixed isomers)	1,945,248	250	0	1,702	6,222	1,953,422	8	273	6,199
7439-96-5	Manganese	36,776	257	0	1,449,916	398,988	1,885,937	0	54,875	344,113
108-88-3	Toluene	1,799,172	2,100	0	0	5,564	1,806,836	10	0	5,564
—	Manganese compounds	8,889	1,313	0	0	1,427,544	1,437,746	0	320,709	1,106,835
75-09-2	Dichloromethane	1,156,395	0	0	5	500	1,156,900	0	250	250

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	4,554,548	0	0	0	0	4,554,548	0	0	0
—	Barium compounds	32,675	501	0	2,744,915	517,213	3,295,304	31,876	517,213	0
7664-93-9	Sulfuric acid	2,972,975	0	0	0	0	2,972,975	0	0	0
7664-39-3	Hydrogen fluoride	734,529	0	0	0	0	734,529	0	0	0
—	Manganese compounds	7,990	755	0	494,767	55,114	558,626	0	55,114	0
7440-39-3	Barium	11,521	0	0	0	365,182	376,703	0	322,000	43,182
7697-37-2	Nitric acid	357,036	0	0	0	0	357,036	0	0	0
—	Nickel compounds	3,882	817	0	98,100	52,800	155,599	0	52,800	0
—	Zinc compounds	1,646	2,683	0	129,411	6,321	140,061	5,470	6,321	0
—	Copper compounds	1,269	750	0	122,500	4,300	128,819	0	4,300	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

IOWA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Climax Molybdenum Co., Fort Madison, Lee	3,251,735	4,842	0	0	0	650	3,257,227	0	0
Equistar Chemicals L.P. Clinton Plant, Clinton, Clinton	3,056,658	0	0	0	0	0	3,056,658	0	0
IBP Inc., Columbus Junction, Louisa	1,020	1,900,500	0	0	0	250	1,901,770	18,800	0
Griffin Wheel Co., Keokuk Plant, Keokuk, Lee	36,400	0	0	0	0	1,105,200	1,141,600	4,679	78,770
Terra Nitrogen, Sergeant Bluff, Woodbury	976,520	73,605	0	0	0	510	1,050,635	0	14,000
ADM Corn Processing, Clinton, Clinton	1,015,403	3,273	0	0	0	0	1,018,676	173,558	0
PCS Nitrogen Fertilizer L.P., Clinton Plant, Camanche, Clinton	679,989	187,249	0	0	0	0	867,238	0	0
Salsbury Chemicals Inc., Charles City, Floyd	531,670	283,432	0	0	0	0	815,102	0	289,014
Future Foam Inc., Council Bluffs, Pottawattamie	730,500	0	0	0	0	0	730,500	0	0
ADM Soybean Processing, Des Moines, Polk	609,000	0	0	0	0	0	609,000	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)†

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Cedar Falls Utilities, Cedar Falls, Black Hawk	3,028,141	0	0	0	0	0	3,028,141	0	0
Louisa Generating Station, Muscatine, Muscatine	1,386,290	3,105	0	0	0	1,149,700	2,539,095	15	0
Council Bluffs Energy Center, Council Bluffs, Pottawattamie	702,390	1,250	0	0	0	1,564,000	2,267,640	15	15
George Neal North, Sioux City, Woodbury	718,535	1,755	0	0	0	1,177,900	1,898,190	15	0
Lansing Power Station, Lansing, Allamakee	726,591	1	0	0	0	0	726,592	0	45,581
City of Ames Power Plant, Ames, Story	376,585	0	0	0	0	34,000	410,585	0	0
Sixth Street Generating Station, Cedar Rapids, Linn	339,105	0	0	0	0	0	339,105	30,000	0
Fair Station, Montpelier, Muscatine	244,760	0	0	0	0	0	244,760	0	0
Dubuque Power Plant, Dubuque, Dubuque	231,494	0	0	0	0	0	231,494	7,713	0
Ottumwa Generating Station, Ottumwa, Wapello	201,670	0	0	0	0	0	201,670	114,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*
†One facility, George Neal South in Sioux City, Iowa was incorrectly located in Minnesota. It ranks fifth with 1,311,745 pounds of total on-site releases.

1998 Toxics Release Inventory

IOWA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Ipsco Steel Inc., Muscatine, Muscatine	0	0	0	0	0	0	4,596,737	4,596,737	6
Climax Molybdenum Co., Fort Madison, Lee	150,000	0	0	0	500,000	0	3,256,578	3,906,578	0
Equistar Chemicals L.P. Clinton Plant, Clinton, Clinton	0	0	0	833,530	7,794,300	30,901	1,911,586	10,570,317	1,180,316
IBP Inc., Columbus Junction, Louisa	0	15,000	0	0	331,000	0	1,911,030	2,257,030	4
Griffin Wheel Co., Keokuk Plant, Keokuk, Lee	0	0	0	0	0	0	1,224,969	1,224,969	0
ADM Corn Processing, Clinton, Clinton	0	0	0	0	132,600	0	1,116,909	1,249,509	0
Terra Nitrogen, Sergeant Bluff, Woodbury	0	0	0	0	0	0	1,056,040	1,056,040	2,100
Salsbury Chemicals Inc., Charles City, Floyd	2,055,000	0	0	0	1,511,400	1,113,550	1,038,135	5,718,085	0
North Star Recycling, Wiltonjunction, Muscatine	0	0	0	0	0	0	941,017	941,017	0
PCS Nitrogen Fertilizer L.P., Clinton Plant, Camanche, Clinton	0	0	0	0	0	0	882,828	882,828	458

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)†

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Louisa Generating Station, Muscatine, Muscatine	0	0	0	0	0	0	2,541,000	2,541,000	0
Cedar Falls Utilities, Cedar Falls, Black Hawk	0	0	0	0	0	0	2,265,402	2,265,402	0
Council Bluffs Energy Center, Council Bluffs, Pottawattamie	0	0	0	0	0	0	2,264,000	2,264,000	0
George Neal North, Sioux City, Woodbury	0	0	0	0	0	0	1,895,000	1,895,000	0
Lansing Power Station, Lansing, Allamakee	0	0	0	0	103	0	772,173	772,276	1
Alliant Energy M L Kapp Generating Station, Clinton, Clinton	0	0	0	0	0	0	452,700	452,700	0
City of Ames Power Plant, Ames, Story	0	0	0	0	0	0	376,590	376,590	3
Sixth Street Generating Station, Cedar Rapids, Linn	0	0	0	0	0	0	370,000	370,000	2
Riverside Generating Station, Bettendorf, Scott	0	0	0	0	0	0	322,000	322,000	0
Ottumwa Generating Station, Ottumwa, Wapello	0	0	0	0	0	0	314,300	314,300	11

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*
†One facility, George Neal South in Sioux City, Iowa was incorrectly located in Minnesota. It ranks fifth with 1,318,000 pounds of quantity released on- and off-site.

1998 Toxics Release Inventory

KANSAS

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	22,573,359	10,943,658	33,517,017
Air Emissions	19,492,825	5,163,738	24,656,563
Surface Water Discharges	620,344	7,535	627,879
Underground Injection Class I Wells	1,350,665	0	1,350,665
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	292	0	292
Other On-site Land Releases	1,109,233	5,772,385	6,881,618
Off-site Releases (Transfers Off-site to Disposal)*	6,433,673	113,254	6,546,927
Total On- and Off-site Releases	29,007,032	11,056,912	40,063,944
Recycled On-site	126,542,458	171,511	126,713,969
Recycled Off-site	59,430,708	788,546	60,219,254
Energy Recovery On-site	105,332,327	0	105,332,327
Energy Recovery Off-site	3,791,045	44,326	3,835,371
Treated On-site	13,754,125	2,018,635	15,772,760
Treated Off-site**	5,081,096	36,515	5,117,611
Quantity Released On- and Off-site***	25,583,848	11,139,852	36,723,700
Total Production-related Waste Managed	339,515,607	14,199,385	353,714,992
Total Non-production-related Waste Managed	99,249	29	99,278

Transfers Off-site for Further Waste Management/Disposal

Recycling	59,319,282	788,556	60,107,838
Energy Recovery	3,609,161	43,106	3,652,267
Treatment	865,727	33,895	899,622
Publicly Owned Treatment Works (POTWs)	1,022,126	9,320	1,031,446
Metals and Metal Compounds*	41,380	0	41,380
Non-metal TRI Chemicals**	980,746	9,320	990,066
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	6,523,096	114,165	6,637,261
Total Transfers Off-site for Further Waste Management/Disposal	71,339,392	989,042	72,328,434

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*

*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*

**** *Transfers reported without a valid waste management code.*

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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
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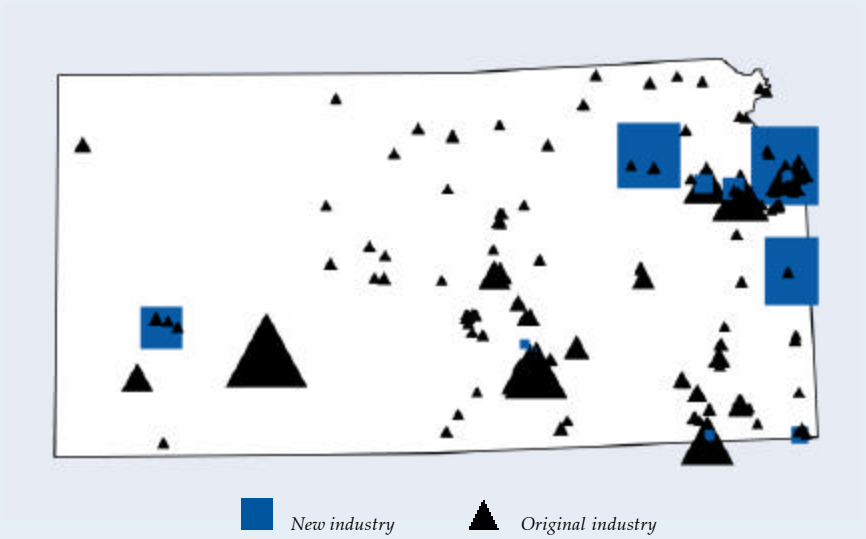

The largest marker in the state map represents the largest facility for on-site releases in the state of Kansas. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	2,629,067
Square Miles	81,823
Total Facilities	280
Total Forms	1,048
Form As	110

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	26	38	32
Pounds	29,007,032	11,056,912	40,063,944
National Rank for Total On-site Releases**			
Rank	28	37	34
Pounds	22,573,359	10,943,658	33,517,017
National Rank for Total Releases within State***			
Rank	27	38	34
Pounds	25,214,090	11,156,025	36,370,115
National Rank for Production-related Waste Managed			
Rank	22	40	26
Pounds	339,515,607	14,199,385	353,714,992

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*

*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

KANSAS

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	4,404,634	32,862	19,800	46,491	37,000	4,540,787	0	36,750	250
7664-38-2	Phosphoric acid	47,375	250	0	0	3,379,500	3,427,125	4	0	3,379,500
1330-20-7	Xylene (mixed isomers)	2,069,851	57	0	1,123	42,377	2,113,408	0	11,808	30,569
110-54-3	n-Hexane	2,077,047	30	0	0	260	2,077,337	0	255	5
—	Manganese compounds	20,002	250	0	76,500	1,790,469	1,887,221	838	1,786,869	3,600
67-56-1	Methanol	803,485	13	806,314	180	11,886	1,621,878	0	10,503	1,383
108-88-3	Toluene	1,505,360	197	0	1,141	1,901	1,508,599	0	489	1,412
75-15-0	Carbon disulfide	1,324,606	0	0	0	0	1,324,606	0	0	0
7439-96-5	Manganese	22,424	250	0	845,157	35,782	903,613	0	23,025	12,757
78-93-3	Methyl ethyl ketone	727,725	0	0	17,500	515	745,740	11,477	512	3

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Barium compounds	67,050	2,010	0	3,740,000	0	3,809,060	48,751	0	0
7647-01-0	Hydrochloric acid	3,353,598	0	0	0	0	3,353,598	0	0	0
7440-39-3	Barium	31,758	5	0	1,262,308	88,275	1,382,346	1,285	0	88,275
7664-39-3	Hydrogen fluoride	820,927	0	0	0	0	820,927	0	0	0
7664-93-9	Sulfuric acid	815,556	0	0	0	0	815,556	0	0	0
—	Manganese compounds	4,170	1,000	0	239,000	250	244,420	0	250	0
—	Copper compounds	3,184	500	0	132,391	5	136,080	8	5	0
—	Zinc compounds	8,186	2,000	0	118,619	15	128,820	279	15	0
7782-41-4	Fluorine	955	0	0	90,778	0	91,733	0	0	0
—	Chromium compounds	2,361	500	0	71,532	490	74,883	37,016	490	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

KANSAS

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Farmland Ind. Inc. Dodge City Nitrogen Plant, Dodge City, Ford	2,196,114	0	1,150	0	0	2,060	2,199,324	0	0
Boeing Co. — Wichita Div., Wichita, Sedgwick	1,569,460	27,260	0	0	0	0	1,596,720	12,210	242,075
Farmland Ind. Inc. Lawrence Nitrogen Plant, Lawrence, Douglas	931,204	481,100	0	0	0	300	1,412,604	0	0
Farmland Inds. Inc., Coffeyville, Montgomery	1,301,837	15,901	0	0	0	0	1,317,738	0	0
UCB Films Inc., Tecumseh, Shawnee	1,058,234	3,800	0	0	0	500	1,062,534	0	0
GM MLCG-Fairfax Assembly, Kansas City, Wyandotte	1,043,653	0	0	0	0	0	1,043,653	740	11,300
Griffin Wheel Co. Kansas City Plant, Kansas City, Wyandotte	18,000	0	0	0	0	845,157	863,157	1,481	45,359
Air Prods. Mfg. Corp., Haysville, Sedgwick	78,562	0	747,390	0	0	0	825,952	0	0
Vulcan Chemicals, Wichita, Sedgwick	110,395	0	592,854	0	0	0	703,249	2,899	0
Cargill Inc./Oilseeds, Wichita, Sedgwick	683,000	0	0	0	0	0	683,000	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Nearman Creek Power Station, Kansas City, Wyandotte	2,365,063	0	0	0	0	327,136	2,692,199	0	0
La Cygne, La Cygne, Linn	327,710	10	0	0	0	1,950,000	2,277,720	414	0
Jeffrey Energy Center, Saint Marys, Pottawatomie	402,165	4,000	0	0	0	1,732,600	2,138,765	760	0
Quindaro Power Station, Kansas City, Wyandotte	1,209,159	0	0	0	0	170,725	1,379,884	0	99,280
Holcomb Unit 1, Holcomb, Finney	465,285	0	0	0	0	820,618	1,285,903	0	0
Lawrence Energy Center, Lawrence, Douglas	69,210	1,500	0	0	0	390,000	460,710	5	0
Tecumseh Energy Center, Tecumseh, Shawnee	152,610	1,000	0	0	0	206,000	359,610	5	0
Riverton Generating Station, Riverton, Cherokee	122,018	5	0	0	0	175,306	297,329	0	0
Safety-Kleen (Aragonite) Inc., Coffeyville, Montgomery	17,113	0	0	0	0	0	17,113	0	8,475
Phillips Pipe Line Co. — Kansas City Terminal, Kansas City, Wyandotte	10,665	759	0	0	0	0	11,424	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

KANSAS

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Farmland Ind. Inc. Dodge City Nitrogen Plant, Dodge City, Ford	0	0	15,000	0	10,100	0	2,203,004	2,228,104	0
Inspec USA Inc., Galena, Cherokee	3,874,342	0	0	585,747	69,867	0	1,798,572	6,328,528	0
Boeing Co. — Wichita Div., Wichita, Sedgwick	0	7,423,000	0	465,990	621,972	80,972	1,768,700	10,360,634	0
Farmland Ind. Inc. Lawrence Nitrogen Plant, Lawrence, Douglas	57,000,000	0	2,846,000	0	3,573,000	0	1,413,000	64,832,000	22,000
Farmland Inds. Inc., Coffeyville, Montgomery	0	19	0	583	0	0	1,317,721	1,318,323	0
UCB Films Inc., Tecumseh, Shawnee	7,300,000	0	0	24,000	229,800	0	1,055,200	8,609,000	0
GM MLCG-Fairfax Assembly, Kansas City, Wyandotte	0	0	0	582,710	164,260	138,454	1,051,885	1,937,309	0
Griffin Wheel Co. Kansas City Plant, Kansas City, Wyandotte	0	0	0	0	0	0	909,827	909,827	0
Air Prods. Mfg. Corp., Haysville, Sedgwick	0	0	562,930	320	1,090,920	4,300	821,740	2,480,210	0
Vulcan Chemicals, Wichita, Sedgwick	0	102,994	0	387	1,058,877	7,689	687,545	1,857,492	58,463

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Nearman Creek Power Station, Kansas City, Wyandotte	0	407,330	0	0	0	0	2,692,199	3,099,529	2
La Cygne, La Cygne, Linn	0	0	0	0	0	414	2,279,900	2,280,314	0
Jeffrey Energy Center, Saint Marys, Pottawatomie	0	0	0	0	1,010,000	0	2,143,000	3,153,000	0
Quindaro Power Station, Kansas City, Wyandotte	0	68,661	0	0	0	0	1,557,115	1,625,776	0
Holcomb Unit 1, Holcomb, Finney	0	0	0	0	0	0	1,285,901	1,285,901	0
Lawrence Energy Center, Lawrence, Douglas	0	0	0	0	156,000	0	468,000	624,000	0
Tecumseh Energy Center, Tecumseh, Shawnee	0	0	0	0	13,500	0	358,000	371,500	0
Riverton Generating Station, Riverton, Cherokee	0	0	0	0	0	0	297,324	297,324	0
Safety-Kleen (Aragonite) Inc., Coffeyville, Montgomery	135,823	283,761	0	0	795,198	29,630	25,561	1,269,973	27
Phillips Pipe Line Co. — Wichita Terminal, Wichita, Sedgwick	0	5	0	0	13,241	5	10,639	23,890	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

KENTUCKY

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	34,618,420	59,544,677	94,163,097
Air Emissions	30,707,376	44,906,314	75,613,690
Surface Water Discharges	613,048	788,388	1,401,436
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	485,532	3	485,535
Other On-site Land Releases	2,812,464	13,849,972	16,662,436
Off-site Releases (Transfers Off-site to Disposal)*	5,229,217	2,067,475	7,296,692
Total On- and Off-site Releases	39,847,637	61,612,152	101,459,789
Recycled On-site	348,344,246	1,093,674	349,437,920
Recycled Off-site	48,524,049	224,700	48,748,749
Energy Recovery On-site	66,899,304	0	66,899,304
Energy Recovery Off-site	8,146,849	10,444,342	18,591,191
Treated On-site	117,330,012	27,172,398	144,502,410
Treated Off-site**	8,634,842	2,213,637	10,848,479
Quantity Released On- and Off-site***	38,829,320	60,195,953	99,025,273
Total Production-related Waste Managed	636,708,622	101,344,704	738,053,326
Total Non-production-related Waste Managed	58,826	211	59,037

Transfers Off-site for Further Waste Management/Disposal

Recycling	51,198,258	242,507	51,440,765
Energy Recovery	8,060,315	10,445,957	18,506,272
Treatment	6,832,070	2,166,167	8,998,237
Publicly Owned Treatment Works (POTWs)	1,632,343	406	1,632,749
Metals and Metal Compounds*	46,435	0	46,435
Non-metal TRI Chemicals**	1,585,908	406	1,586,314
Other Off-site Transfers****	33,054	0	33,054
Off-site Transfers to Disposal *(not including metals to POTWs)*	6,368,431	2,073,470	8,441,901
Total Transfers Off-site for Further Waste Management/Disposal	74,124,471	14,928,507	89,052,978

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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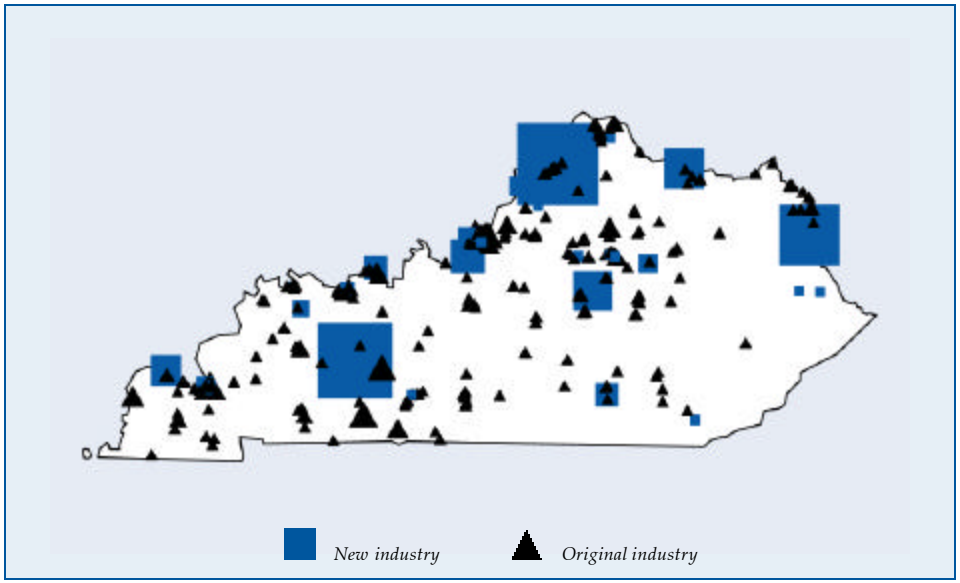

The largest marker in the state map represents the largest facility for on-site releases in the state of Kentucky. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	3,936,499
Square Miles	39,732
Total Facilities	468
Total Forms	2,042
Form As	259

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	22	15	22
Pounds	39,847,637	61,612,152	101,459,789
National Rank for Total On-site Releases**			
Rank	20	15	22
Pounds	34,618,420	59,544,677	94,163,097
National Rank for Total Releases within State***			
Rank	21	15	22
Pounds	39,308,008	62,879,978	102,187,986
National Rank for Production-related Waste Managed			
Rank	13	14	15
Pounds	636,708,622	101,344,704	738,053,326

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

KENTUCKY

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	4,203,378	158,015	0	9,936	726	4,372,055	0	1	725
108-88-3	Toluene	3,244,331	208	0	4,365	16,511	3,265,415	2,919	13,468	3,043
75-45-6	Chlorodifluoromethane (HCFC-22)	2,801,142	0	0	0	0	2,801,142	0	0	0
110-54-3	n-Hexane	2,590,156	180	0	88	1,912	2,592,336	0	260	1,652
1330-20-7	Xylene (mixed isomers)	2,315,299	552	0	960	64,058	2,380,869	2,663	464	63,594
7429-90-5	Aluminum (fume or dust)	343,706	218	0	1,800,000	100,514	2,244,438	0	76,214	24,300
75-09-2	Dichloromethane	2,157,120	57	0	0	4	2,157,181	66	3	1
—	Zinc compounds	105,569	10,815	0	106,624	1,552,333	1,775,341	143,218	372,024	1,180,428
—	Glycol ethers	1,288,392	0	0	0	2,237	1,290,629	691	2,237	0
1332-21-4	Asbestos (friable)	250	0	0	0	1,126,321	1,126,571	0	1,126,321	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	27,786,365	0	0	0	0	27,786,365	0	0	0
7664-93-9	Sulfuric acid	15,359,448	0	0	0	0	15,359,448	0	0	0
—	Barium compounds	14,926	148,211	0	5,146,127	160,990	5,470,254	236,966	160,990	0
—	Zinc compounds	47,964	126,680	0	2,188,116	227,356	2,590,116	34,319	120,754	106,731
—	Manganese compounds	11,149	306,908	0	1,608,195	88,255	2,014,507	62,710	88,255	0
7664-39-3	Hydrogen fluoride	1,523,782	0	0	0	2,486	1,526,268	0	2,486	0
—	Nickel compounds	4,885	106,586	0	1,018,569	23,060	1,153,100	4,100	22,810	250
—	Chromium compounds	5,346	10,897	0	741,588	26,429	784,260	16,388	26,428	1
—	Copper compounds	4,050	9,902	0	711,819	17,333	743,104	62,800	17,155	178
—	Lead compounds	6,547	24,357	0	679,723	26,628	737,255	913,244	26,393	235

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

KENTUCKY

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
DuPont Louisville Works, Louisville, Jefferson	2,462,043	0	0	0	0	0	2,462,043	0	314
Air Prods. & Chemicals Inc., Calvert City, Marshall	2,235,663	111,827	0	0	0	9,155	2,356,645	0	0
Carpenter Co., Russellville, Logan	1,997,029	0	0	0	0	0	1,997,029	0	0
IMCO Recycling Inc., Morgantown, Butler	36,261	0	0	0	0	1,929,900	1,966,161	0	0
Westvaco Corp., Wickliffe, Ballard	1,154,280	125,104	0	0	0	23,324	1,302,708	0	0
Toyota Motor Mfg. Kentucky Inc., Georgetown, Scott	1,263,327	424	0	0	0	0	1,263,751	24,929	12,119
Quebecor Printing Franklin, Franklin, Simpson	1,111,000	0	0	0	0	0	1,111,000	770	1,455
Willamette Inds. Inc., Hawesville, Hancock	585,472	156,078	0	0	321,347	32	1,062,929	0	0
Daramic Inc., Owensboro, Daviess	1,012,750	0	0	0	0	0	1,012,750	0	0
Ford Motor Co., Kentucky Truck Plant, Louisville, Jefferson	1,007,197	0	0	0	0	0	1,007,197	24,988	3,222

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Kentucky Utilities Co. — Ghent Station, Ghent, Carroll	8,471,776	104,750	0	0	0	2,388,500	10,965,026	0	0
U.S. TVA Paradise Fossil Plant, Drakesboro, Muhlenberg	9,095,350	80,550	0	0	0	675,010	9,850,910	0	0
Big Sandy Plant, Louisa, Lawrence	6,464,315	10,735	0	0	0	1,174,970	7,650,020	1,769	236
Spurlock Power Station, Maysville, Mason	3,835,154	971	0	0	0	801,000	4,637,125	0	0
Kentucky Utilities Co. — E. W. Brown Station, Burgin, Mercer	3,704,750	26,970	0	0	0	713,000	4,444,720	0	0
Louisville Gas & Electric Co. — Mill Creek Station, Louisville, Jefferson	2,054,724	65,889	0	0	0	1,489,900	3,610,513	0	0
U.S. TVA Shawnee Fossil Plant, West Paducah, Mc Cracken	605,535	429,250	0	0	0	2,053,800	3,088,585	2,890	0
Coleman, Hawesville, Hancock	1,880,545	2,096	0	0	0	204,420	2,087,061	0	178
Cooper Power Station, Burnside, Pulaski	1,711,240	781	0	0	0	283,000	1,995,021	0	0
Louisville Gas & Electric Co. — Cane Run Station, Louisville, Jefferson	1,322,504	24,400	0	0	3	622,000	1,968,907	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

KENTUCKY

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Dupont Louisville Works, Louisville, Jefferson	0	443	0	0	0	12,189	2,455,896	2,468,528	6
Air Prods. & Chemicals Inc., Calvert City, Marshall	0	0	0	0	3,255,344	263,411	2,357,924	5,876,679	0
Carpenter Co., Russellville, Logan	0	0	0	0	0	17,109	1,997,029	2,014,138	11,000
IMCO Recycling Inc., Morgantown, Butler	0	0	0	0	0	0	1,929,900	1,929,900	0
Westvaco Corp., Wickliffe, Ballard	0	0	0	0	5,297,904	0	1,423,021	6,720,925	0
Toyota Motor Mfg. Kentucky Inc., Georgetown, Scott	0	1,413,770	644,842	151,954	203,325	319,785	1,290,082	4,023,758	0
Newport Steel Corp., Wilder, Campbell	0	0	0	0	0	0	1,113,700	1,113,700	0
Quebecor Printing Franklin, Franklin, Simpson	25,000,000	0	0	60,000	510	6,310	1,100,280	26,167,100	0
Willamette Inds. Inc., Hawesville, Hancock	0	0	1,089,953	0	6,464,424	0	1,062,979	8,617,356	2
Ford Motor Co., Louisville Assembly Plant, Louisville, Jefferson	0	1,376,459	0	24,994	388,170	10,100	1,052,760	2,852,483	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Kentucky Utilities Co. — Ghent Station, Ghent, Carroll	0	0	0	0	0	0	10,979,000	10,979,000	0
U.S. TVA Paradise Fossil Plant, Drakesboro, Muhlenberg	0	0	0	0	12,139,000	0	9,849,020	21,988,020	0
Big Sandy Plant, Louisa, Lawrence	0	32,800	0	0	1,000,000	0	7,647,400	8,680,200	0
Spurlock Power Station, Maysville, Mason	0	0	0	0	0	0	4,569,000	4,569,000	13
Kentucky Utilities Co. — E. W. Brown Station, Burgin, Mercer	0	0	0	0	0	0	4,452,000	4,452,000	0
Louisville Gas & Electric Co. — Mill Creek Station, Louisville, Jefferson	0	0	0	0	0	0	3,612,600	3,612,600	0
U.S. TVA Shawnee Fossil Plant, West Paducah, Mc Cracken	0	0	0	0	1,061,000	0	3,151,020	4,212,020	0
Coleman, Hawesville, Hancock	0	0	0	0	0	0	2,200,512	2,200,512	0
Cooper Power Station, Burnside, Pulaski	0	0	0	0	0	0	1,992,000	1,992,000	9
Louisville Gas & Electric Co. — Cane Run Station, Louisville, Jefferson	0	0	0	0	0	3	1,964,000	1,964,003	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

LOUISIANA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	173,494,580	13,185,248	186,679,828
Air Emissions	75,490,120	4,251,103	79,741,223
Surface Water Discharges	37,153,990	79,236	37,233,226
Underground Injection Class I Wells	52,845,038	530,351	53,375,389
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	782	3,803,510	3,804,292
Other On-site Land Releases	8,004,650	4,521,048	12,525,698
Off-site Releases (Transfers Off-site to Disposal)*	1,799,852	128,399	1,928,251
Total On- and Off-site Releases	175,294,432	13,313,647	188,608,079
Recycled On-site	844,859,683	2,770,000	847,629,683
Recycled Off-site	47,139,502	680,820	47,820,322
Energy Recovery On-site	337,940,984	54,418	337,995,402
Energy Recovery Off-site	19,099,381	111,182	19,210,563
Treated On-site	880,378,400	1,234,150	881,612,550
Treated Off-site**	16,761,232	417,520	17,178,752
Quantity Released On- and Off-site***	174,819,499	13,395,343	188,214,842
Total Production-related Waste Managed	2,320,998,681	18,663,433	2,339,662,114
Total Non-production-related Waste Managed	375,410	209	375,619

Transfers Off-site for Further Waste Management/Disposal

Recycling	44,195,377	680,816	44,876,193
Energy Recovery	17,674,926	105,525	17,780,451
Treatment	16,161,399	344,064	16,505,463
Publicly Owned Treatment Works (POTWs)	244,226	69	244,295
Metals and Metal Compounds*	897	2	899
Non-metal TRI Chemicals**	243,329	67	243,396
Other Off-site Transfers****	5,434	0	5,434
Off-site Transfers to Disposal *(not including metals to POTWs)*	2,108,406	154,127	2,262,533
Total Transfers Off-site for Further Waste Management/Disposal	80,389,768	1,284,601	81,674,369

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site*

** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*

*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*

**** *Transfers reported without a valid waste management code.*

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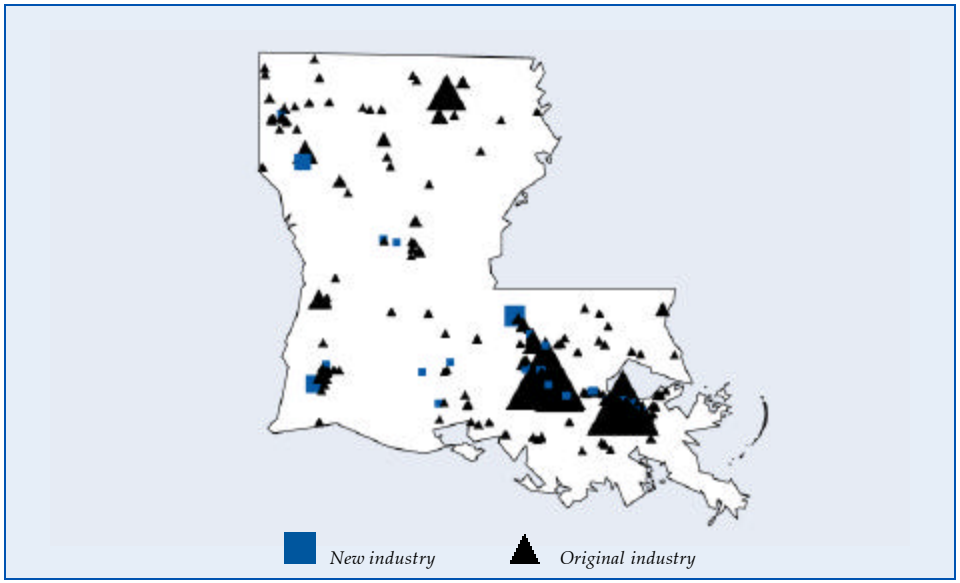

The largest marker in the state map represents the largest facility for on-site releases in the state of Louisiana. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	4,368,967
Square Miles	43,566
Total Facilities	342
Total Forms	2,420
Form As	263

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	2	35	10
Pounds	175,294,432	13,313,647	188,608,079
National Rank for Total On-site Releases**			
Rank	2	32	8
Pounds	173,494,580	13,185,248	186,679,828
National Rank for Total Releases within State***			
Rank	2	34	9
Pounds	177,001,248	13,532,676	190,533,924
National Rank for Production-related Waste Managed			
Rank	2	37	2
Pounds	2,320,998,681	18,663,433	2,339,662,114

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*

*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

LOUISIANA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-38-2	Phosphoric acid	21,018	27,502,098	13,476	1,428,769	0	28,965,361	1,854	0	0
7664-41-7	Ammonia	21,808,220	650,246	5,059,551	10,267	79,907	27,608,191	143,869	79,907	0
67-56-1	Methanol	17,506,346	336,037	4,639,983	297,023	19,298	22,798,687	91,357	19,129	169
—	Nitrate compounds	0	7,627,993	5,092,800	750	2,950	12,724,493	246,351	2,950	0
50-00-0	Formaldehyde	470,619	14,758	9,285,365	431	254	9,771,427	2,097	254	0
75-05-8	Acetonitrile	42,412	596	7,811,000	0	0	7,854,008	52	0	0
7697-37-2	Nitric acid	31,872	5	6,587,105	0	0	6,618,982	671	0	0
110-54-3	n-Hexane	5,059,621	4,010	23,227	758	1,394	5,089,010	1,631	1,394	0
74-85-1	Ethylene	4,309,267	0	0	0	0	4,309,267	0	0	0
79-10-7	Acrylic acid	12,258	6,345	3,500,000	0	4,000	3,522,603	255	4,000	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Barium compounds	58,940	28,179	0	3,289,049	1,088	3,377,256	20,674	1,088	0
7647-01-0	Hydrochloric acid	2,158,409	0	0	0	0	2,158,409	0	0	0
—	Zinc compounds	5,728	2,556	0	1,353,632	322	1,362,238	44,063	53	269
7664-93-9	Sulfuric acid	1,351,931	0	0	0	0	1,351,931	0	0	0
—	Diisocyanates	5	0	0	900,000	0	900,005	0	0	0
—	Manganese compounds	6,458	19,082	0	747,960	802	774,302	230	802	0
7664-39-3	Hydrogen fluoride	611,662	0	0	1,600	0	613,262	7	0	0
—	Copper compounds	2,082	9,033	0	366,604	1,907	379,626	202,671	206	1,701
—	Nickel compounds	1,396	690	0	368,753	5	370,844	3,488	2	3
1163-19-5	Decabromodiphenyl oxide	0	0	0	310,000	0	310,000	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

LOUISIANA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
PCS Nitrogen Fertilizer L.P., Geismar, Ascension	1,823,800	19,702,087	0	0	0	593,784	22,119,671	0	0
Cytec Inds. Inc. Fortier Plant, Westwego, Jefferson	250,413	48,583	19,605,900	0	0	0	19,904,896	33,010	3,205
IMC-Agrico Co. Faustina Plant, Saint James, St James	6,552,618	5,804,650	0	0	0	447,244	12,804,512	0	0
Angus Chemical Co., Sterlington, Ouachita	170,465	368,896	9,172,479	0	0	720	9,712,560	0	0
Monsanto — Luling, Luling, St Charles	112,629	176,560	8,951,300	0	0	0	9,240,489	0	41,000
Rubicon Inc., Geismar, Ascension	887,949	210	8,036,800	0	0	0	8,924,959	9,760	0
CF Inds. Inc., Donaldsonville, Ascension	5,426,870	560,925	0	0	0	0	5,987,795	24,010	0
International Paper, Mansfield, De Soto	4,126,915	8,762	0	0	0	1,023,297	5,158,974	0	0
Exxon Co. USA Baton Rouge Refy., Baton Rouge, East Baton Rouge	1,095,140	3,393,550	0	0	0	177	4,488,867	47,474	5,341
Boise Cascade Corp., Deridder, Beauregard	3,663,400	99,140	0	0	0	0	3,762,540	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Big Cajun 2, New Roads, Pointe Coupee	3,336,934	2,500	0	0	0	1,677,048	5,016,482	0	0
Chemical Waste Management — Lake Charles Facility, Sulphur, Calcasieu	295	0	0	0	3,803,510	0	3,803,805	0	12,037
Cleco Corp. Dolet Hills Power Station, Mansfield, De Soto	569,959	38,910	0	0	0	2,837,950	3,446,819	0	0
Safety-Kleen (Plaquemine) Inc., Plaquemine, Iberville	141	0	530,351	0	0	0	530,492	0	21,317
Entergy — Roy S. Nelson Generating Plt., Westlake, Calcasieu	141,993	25,992	0	0	0	0	167,985	2,149	0
Cleco Corp. Rodemacher Power Station, Lena, Rapides	148,930	11,829	0	0	0	5,800	166,559	0	0
Evans Harvey Corp., Harvey, Jefferson	16,616	0	0	0	0	0	16,616	0	0
Ashland Distribution Co., Baton Rouge, East Baton Rouge	6,448	0	0	0	0	0	6,448	0	0
Chemcentral/New Orleans, Jefferson, Jefferson	5,684	0	0	0	0	0	5,684	0	0
Gulf Coast Chemical Inc., Abbeville, Vermilion	5,121	0	0	0	0	0	5,121	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

LOUISIANA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
PCS Nitrogen Fertilizer L.P., Geismar, Ascension	0	51,000	0	0	1,334,128	0	22,119,671	23,504,799	74
Cytec Inds. Inc. Fortier Plant, Westwego, Jefferson	9,079,200	71,800	16,882,400	1,901	4,005,961	4,156	19,851,210	49,896,628	0
IMC-Agrico Co. Faustina Plant, Saint James, St James	0	41,531	3,407,054	0	27,672	0	12,804,514	16,280,771	0
Angus Chemical Co., Sterlington, Ouachita	8,488,662	58,379	4,041,987	0	123,064	250,546	9,712,560	22,675,198	0
Monsanto — Luling, Luling, St Charles	0	41,000	0	0	37,586,600	30,000	9,228,432	46,886,032	0
Rubicon Inc., Geismar, Ascension	0	0	14,259,000	0	798,300	414,163	8,974,088	24,445,551	11,896
CF Inds. Inc., Donaldsonville, Ascension	0	538,480	585,000	0	0	0	6,011,104	7,134,584	0
International Paper, Mansfield, De Soto	0	0	439,627	0	4,367,296	0	5,203,888	10,010,811	0
Exxon Co. USA Baton Rouge Refy., Baton Rouge, East Baton Rouge	0	211,879	0	1,875	3,191,095	273	4,541,681	7,946,803	0
Boise Cascade Corp., Deridder, Beauregard	0	0	0	0	4,933,700	0	3,718,190	8,651,890	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Big Cajun 2, New Roads, Pointe Coupee	0	0	0	0	0	0	5,138,000	5,138,000	0
Chemical Waste Management — Lake Charles Facility, Sulphur, Calcasieu	0	63	0	910	167,000	5,261	3,805,510	3,978,744	0
Cleco Corp. Dolet Hills Power Station, Mansfield, De Soto	0	0	0	0	1,058,750	0	3,446,817	4,505,567	0
Safety-Kleen (Plaquemine) Inc., Plaquemine, Iberville	0	0	0	0	1,408	21,317	530,491	553,216	0
Entergy — Roy S. Nelson Generating Plt., Westlake, Calcasieu	0	0	0	0	0	0	170,135	170,135	8
Cleco Corp. Rodemacher Power Station, Lena, Rapides	0	0	0	0	0	0	166,558	166,558	2
Delta Distributors Inc., Saint Gabriel, Iberville	0	0	0	1,482	0	5,100	80,343	86,925	1
Evans Harvey Corp., Harvey, Jefferson	0	4	116,945	2,574	2,242	0	16,614	138,379	0
Baker Petrolite — Rayne Facility, Rayne, Acadia	0	0	0	65,144	0	2	9,898	75,044	0
Ashland Distribution Co., Baton Rouge, East Baton Rouge	0	0	0	14,920	0	0	6,448	21,368	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

1998 Toxics Release Inventory

MAINE

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	8,479,612	94,137	8,573,749
Air Emissions	6,521,208	94,135	6,615,343
Surface Water Discharges	1,096,895	2	1,096,897
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	155,561	0	155,561
Other On-site Land Releases	705,948	0	705,948
Off-site Releases (Transfers Off-site to Disposal)*	1,155,851	17,164	1,173,015
Total On- and Off-site Releases	9,635,463	111,301	9,746,764
Recycled On-site	9,499,057	0	9,499,057
Recycled Off-site	2,145,059	0	2,145,059
Energy Recovery On-site	9,903,867	0	9,903,867
Energy Recovery Off-site	299,639	0	299,639
Treated On-site	64,160,587	4,940	64,165,527
Treated Off-site**	360,869	23,972	384,841
Quantity Released On- and Off-site***	9,800,532	103,310	9,903,842
Total Production-related Waste Managed	96,169,610	132,222	96,301,832
Total Non-production-related Waste Managed	934	2	936

Transfers Off-site for Further Waste Management/Disposal

Recycling	2,159,025	0	2,159,025
Energy Recovery	294,062	0	294,062
Treatment	81,444	8,697	90,141
Publicly Owned Treatment Works (POTWs)	327,610	0	327,610
Metals and Metal Compounds*	57,292	0	57,292
Non-metal TRI Chemicals**	270,318	0	270,318
Other Off-site Transfers****	3,504	0	3,504
Off-site Transfers to Disposal *(not including metals to POTWs)*	1,099,365	17,164	1,116,529
Total Transfers Off-site for Further Waste Management/Disposal	3,965,010	25,861	3,990,871

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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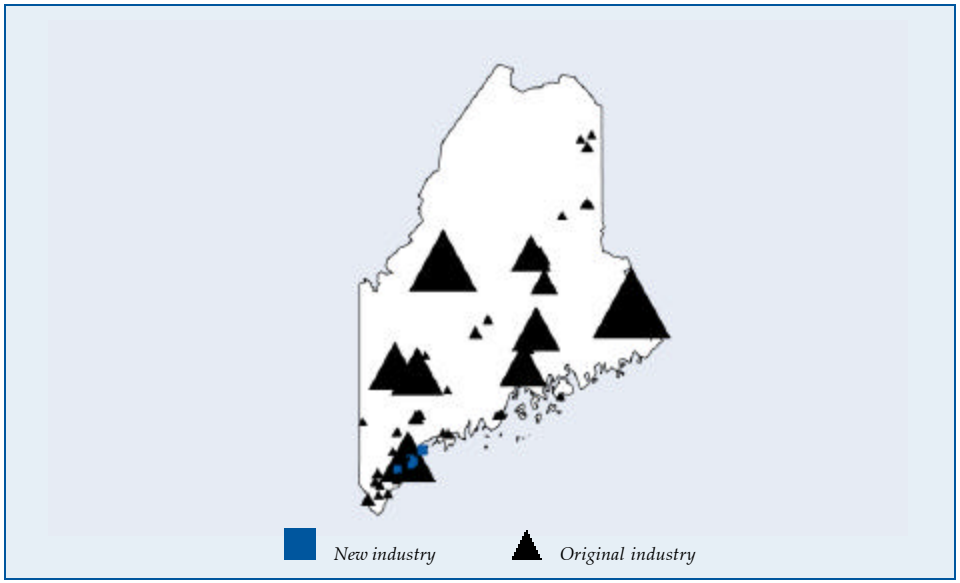

The largest marker in the state map represents the largest facility for on-site releases in the state of Maine. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	1,244,250
Square Miles	30,865
Total Facilities	88
Total Forms	337
Form As	35

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	37	50	47
Pounds	9,635,463	111,301	9,746,764
National Rank for Total On-site Releases**			
Rank	38	50	46
Pounds	8,479,612	94,137	8,573,749
National Rank for Total Releases within State***			
Rank	37	50	46
Pounds	9,495,798	182,525	9,678,323
National Rank for Production-related Waste Managed			
Rank	37	50	42
Pounds	96,169,610	132,222	96,301,832

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

MAINE

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	2,445,504	280,608	0	9,436	23,710	2,759,258	386	23,710	0
—	Manganese compounds	5,054	149,338	0	458,583	319,758	932,733	250	278,758	41,000
7664-41-7	Ammonia	753,320	44,753	0	0	0	798,073	0	0	0
7664-93-9	Sulfuric acid	739,789	0	0	0	0	739,789	0	0	0
7647-01-0	Hydrochloric acid	685,062	0	0	0	0	685,062	0	0	0
—	Zinc compounds	25,880	36,133	0	188,848	405,235	656,096	17,788	397,505	7,730
—	Nitrate compounds	500	355,100	0	0	7,103	362,703	0	7,103	0
110-54-3	n-Hexane	353,450	0	0	0	0	353,450	0	0	0
67-66-3	Chloroform	258,799	6,554	0	20	1,672	267,045	0	1,672	0
75-07-0	Acetaldehyde	247,661	17,526	0	18	116	265,321	0	124	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	43,000	0	0	0	0	43,000	0	0	0
1634-04-4	Methyl tert-butyl ether	20,574	0	0	0	3,221	23,795	0	2,721	500
91-20-3	Naphthalene	9,479	0	0	0	5,852	15,331	0	5,602	250
71-43-2	Benzene	5,053	1	0	0	2,741	7,795	0	2,241	500
108-88-3	Toluene	4,038	0	0	0	1,250	5,288	0	750	500
75-65-0	tert-Butyl alcohol	2,575	0	0	0	1,850	4,425	0	1,600	250
110-54-3	n-Hexane	3,163	0	0	0	250	3,413	0	0	250
1330-20-7	Xylene (mixed isomers)	2,533	1	0	0	750	3,284	0	250	500
100-41-4	Ethylbenzene	1,850	0	0	0	750	2,600	0	250	500
110-82-7	Cyclohexane	1,000	0	0	0	500	1,500	0	250	250

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

MAINE

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Georgia Pacific Corp. Pulp & Bleached Board Div., Baileyville, Washington	748,905	310,260	0	0	128,561	0	1,187,726	0	0
S. D. Warren Co. (Sappi Fine Paper North America), Skowhegan, Somerset	645,654	55,173	0	0	0	321,073	1,021,900	0	0
S. D. Warren Co., Westbrook, Cumberland	722,597	78,572	0	0	0	19,200	820,369	5,260	48,664
International Paper, Jay, Franklin	551,755	135,780	0	0	0	73,301	760,836	0	0
Mead Publishing Paper Div., Rumford, Oxford	649,788	102,800	0	0	0	0	752,588	550,677	0
Fort James Corp., Old Town, Penobscot	594,410	99,946	0	0	0	0	694,356	33,476	0
Champion Intl. Corp., Bucksport, Hancock	420,501	292	0	0	0	249,269	670,062	0	0
Bowater/Great Northern Paper Inc., Millinocket, Penobscot	424,508	116,800	0	0	0	0	541,308	830	0
Spinnaker Coating, Westbrook, Cumberland	406,534	0	0	0	0	0	406,534	0	0
Lincoln Pulp & Paper Co. Inc., Eastern Paper Lincoln Mill, Lincoln, Penobscot	265,983	18,520	0	0	0	42,200	326,703	15,550	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
W.F. Wyman Steam Station, Yarmouth, Cumberland	43,001	0	0	0	0	0	43,001	0	0
Gulf Oil Ltd. Ptnr., South Portland Terminal, South Portland, Cumberland	24,427	0	0	0	0	0	24,427	13,664	2,000
Mobil Oil, South Portland Terminal, South Portland, Cumberland	13,288	0	0	0	0	0	13,288	0	1,500
Motiva S. Portland Terminal, South Portland, Cumberland	12,062	2	0	0	0	0	12,064	0	0
Northeast Petroleum, South Portland Terminal, South Portland, Cumberland	1,010	0	0	0	0	0	1,010	0	0
Monson Cos. Inc., South Portland, Cumberland	347	0	0	0	0	0	347	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

MAINE

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Mead Publishing Paper Div., Rumford, Oxford	0	0	2,791,300	0	11,193,380	0	1,303,499	15,288,179	30
Georgia Pacific Corp. Pulp & Bleached Board Div., Baileyville, Washington	0	0	0	0	8,840,710	0	1,187,661	10,028,371	0
S. D. Warren Co. (Sappi Fine Paper North America), Skowhegan, Somerset	0	0	659,000	0	10,600,500	0	1,025,300	12,284,800	0
S. D. Warren Co., Westbrook, Cumberland	1,049,400	0	244,041	46,700	5,195,200	3	948,968	7,484,312	0
International Paper, Jay, Franklin	0	0	28,049	0	10,674,000	0	772,930	11,474,979	50
Fort James Corp., Old Town, Penobscot	0	0	13,000	0	6,642,100	0	724,115	7,379,215	0
Champion Intl. Corp., Bucksport, Hancock	0	0	0	0	0	0	669,957	669,957	0
Bowater/Great Northern Paper Inc., Millinocket, Penobscot	0	0	0	0	2,084,000	0	537,108	2,621,108	0
Spinnaker Coating, Westbrook, Cumberland	3,758,812	0	0	5,058	0	0	406,533	4,170,403	0
Bowater/Great Northern Paper Inc., East Millinocket, Penobscot	0	0	0	0	20,000	0	350,300	370,300	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
W.F. Wyman Steam Station, Yarmouth, Cumberland	0	0	0	0	0	0	43,001	43,001	0
Gulf Oil Ltd. Ptnr., South Portland Terminal, South Portland, Cumberland	0	0	0	0	0	15,275	24,334	39,609	0
Motiva S. Portland Terminal, South Portland, Cumberland	0	0	0	0	0	8,697	20,761	29,458	0
Mobil Oil, South Portland Terminal, South Portland, Cumberland	0	0	0	0	0	0	14,818	14,818	0
Monson Cos. Inc., South Portland, Cumberland	0	0	0	0	4,940	0	347	5,287	2
Northeast Petroleum, South Portland Terminal, South Portland, Cumberland	0	0	0	0	0	0	48	48	0
Mason Steam Station, Wiscasset, Lincoln	0	0	0	0	0	0	1	1	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

MARYLAND

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	12,583,980	25,177,794	37,761,774
Air Emissions	8,213,866	24,852,361	33,066,227
Surface Water Discharges	2,375,596	132,775	2,508,371
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	45,000	45,000
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	1,994,518	147,658	2,142,176
Off-site Releases (Transfers Off-site to Disposal)*	645,881	509,326	1,155,207
Total On- and Off-site Releases	13,229,861	25,687,120	38,916,981
Recycled On-site	25,867,890	2,043	25,869,933
Recycled Off-site	12,711,729	215,437	12,927,166
Energy Recovery On-site	13,281,742	0	13,281,742
Energy Recovery Off-site	905,351	635	905,986
Treated On-site	31,078,971	50,399,328	81,478,299
Treated Off-site**	9,597,164	1,485	9,598,649
Quantity Released On- and Off-site***	13,170,908	25,537,455	38,708,363
Total Production-related Waste Managed	106,613,755	76,156,383	182,770,138
Total Non-production-related Waste Managed	85,946	128	86,074

Transfers Off-site for Further Waste Management/Disposal

Recycling	4,581,202	215,437	4,796,639
Energy Recovery	780,067	635	780,702
Treatment	6,347,938	1,212	6,349,150
Publicly Owned Treatment Works (POTWs)	2,942,836	0	2,942,836
Metals and Metal Compounds*	65,973	0	65,973
Non-metal TRI Chemicals**	2,876,863	0	2,876,863
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	601,500	509,326	1,110,826
Total Transfers Off-site for Further Waste Management/Disposal	15,253,543	726,610	15,980,153

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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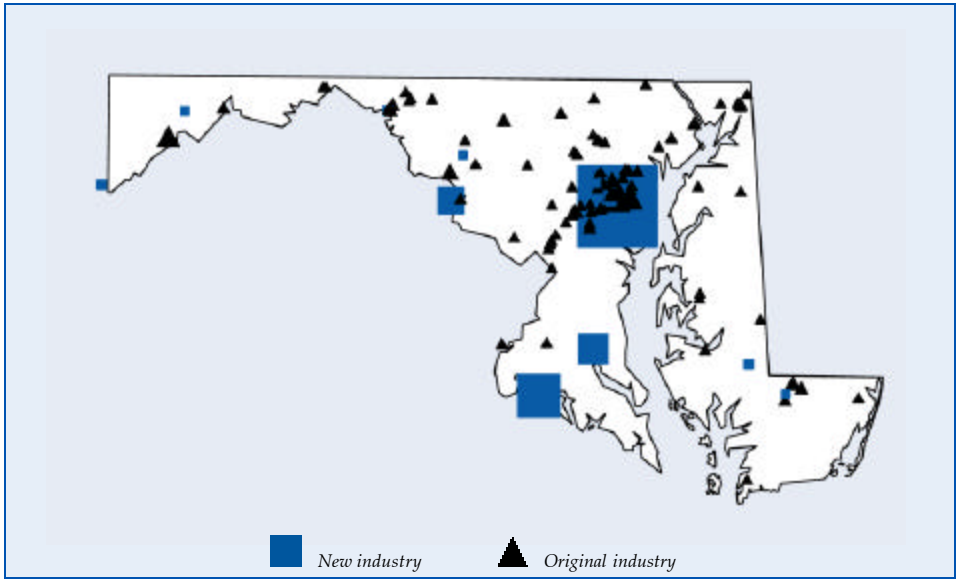

The largest marker in the state map represents the largest facility for on-site releases in the state of Maryland. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	5,134,808
Square Miles	9,775
Total Facilities	208
Total Forms	711
Form As	170

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	35	26	34
Pounds	13,229,861	25,687,120	38,916,981
National Rank for Total On-site Releases**			
Rank	35	26	31
Pounds	12,583,980	25,177,794	37,761,774
National Rank for Total Releases within State***			
Rank	36	26	32
Pounds	12,967,679	25,909,936	38,877,615
National Rank for Production-related Waste Managed			
Rank	34	21	34
Pounds	106,613,755	76,156,383	182,770,138

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

MARYLAND

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Nitrate compounds	10	2,059,512	0	105,987	12,232	2,177,741	0	12,229	3
—	Manganese compounds	29,508	192,873	0	1,639,961	38,752	1,901,094	5,883	29,591	9,161
463-58-1	Carbonyl sulfide	1,537,000	0	0	0	0	1,537,000	0	0	0
67-56-1	Methanol	768,467	0	0	0	0	768,467	0	0	0
1330-20-7	Xylene (mixed isomers)	620,199	2	0	0	0	620,201	3,023	0	0
7647-01-0	Hydrochloric acid	583,421	0	0	0	0	583,421	2,845	0	0
100-42-5	Styrene	574,005	0	0	0	3,462	577,467	0	2,965	497
7664-93-9	Sulfuric acid	464,000	0	0	0	0	464,000	0	0	0
7664-41-7	Ammonia	392,600	35,661	0	18,339	3,828	450,428	3	3,213	615
108-88-3	Toluene	409,213	1	0	5	1,316	410,535	193	0	1,316

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	20,137,130	0	0	0	0	20,137,130	0	0	0
7664-93-9	Sulfuric acid	3,235,810	0	0	0	0	3,235,810	0	0	0
7664-39-3	Hydrogen fluoride	1,287,000	0	0	0	0	1,287,000	0	0	0
7440-39-3	Barium	5,815	60,250	0	56,500	211,000	333,565	160,000	211,000	0
—	Zinc compounds	9,116	225	0	22,900	86,400	118,641	1,522	85,000	1,400
7440-38-2	Arsenic	1,255	255	0	27,000	79,000	107,510	0	79,000	0
7439-96-5	Manganese	2,305	38,005	0	13,300	40,000	93,610	8,600	40,000	0
7440-47-3	Chromium	1,505	25,005	0	14,400	44,000	84,910	0	44,000	0
7440-02-0	Nickel	34,250	1,105	0	5,750	27,000	68,105	0	27,000	0
1634-04-4	Methyl tert-butyl ether	60,137	320	0	22	57	60,536	1,030	33	24

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

MARYLAND

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Millennium Inorganic Chemicals Inc. — Hawkins Point Plant, Baltimore, Baltimore City	1,019,338	100,000	0	0	0	710,000	1,829,338	0	0
Grace Davison, Baltimore, Baltimore City	259,417	1,450,954	0	0	0	0	1,710,371	13,564	7,740
Westvaco Corp. Fine Papers Div., Luke, Allegany	1,485,915	0	0	0	0	8,800	1,494,715	120,700	0
Bethlehem Steel Corp. Sparrows Point Div., Sparrows Point, Baltimore	149,200	159,000	0	0	0	1,144,500	1,452,700	0	100,005
Eastalco Aluminum Co., Frederick, Frederick	696,650	10	0	0	0	0	696,660	0	0
Chemetals Inc., Baltimore Plant, Baltimore, Baltimore City	24,229	516,946	0	0	0	24,736	565,911	193	0
GMC North American Truck Group, Baltimore, Baltimore City	464,296	715	0	0	0	0	465,011	275	2,625
Terumo Medical Corp., Elkton, Cecil	337,361	0	0	0	0	0	337,361	0	0
Lehigh Portland Cement Co., Union Bridge, Carroll	315,755	0	0	0	0	3,300	319,055	0	0
Salisbury (ZCR) Feed & Grain Facility #52, Salisbury, Wicomico	318,000	0	0	0	0	0	318,000	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Brandon Shores & Wagner Complex, Baltimore, Anne Arundel	11,434,848	5,065	0	0	0	3,032	11,442,945	0	7,100
Pepco Morgantown Generating Station, Newburg, Charles	5,280,870	525	0	0	0	73,800	5,355,195	242,000	0
Pepco Chalk Point Generating Station, Aquasco, Prince Georges	3,306,575	32,105	0	0	0	5,850	3,344,530	85,000	0
Dickerson Generating Station, Dickerson, Montgomery	2,633,770	92,010	0	0	0	64,600	2,790,380	175,000	0
C. P. Crane Generating Station, Baltimore, Baltimore City	1,823,604	20	0	0	0	0	1,823,624	0	0
R. Paul Smith Power Station, Williamsport, Washington	152,152	0	0	0	0	0	152,152	0	0
Vienna Power Plant, Vienna, Dorchester	85,788	0	0	0	0	0	85,788	0	0
Mettiki Coal Corp., Oakland, Garrett	7,001	1,450	0	45,000	0	260	53,711	0	0
Baltimore Terminal, Baltimore, Baltimore City	34,799	78	0	0	0	0	34,877	85	14
Gould Street Generating Station, Baltimore, Baltimore City	32,000	0	0	0	0	0	32,000	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

MARYLAND

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Millennium Inorganic Chemicals Inc. — Hawkins Point Plant, Baltimore, Baltimore City	0	0	0	0	3,700,215	0	1,829,338	5,529,553	0
Grace Davison, Baltimore, Baltimore City	6,325,400	26,240	0	0	5,148,700	247	1,732,710	13,233,297	0
Westvaco Corp. Fine Papers Div., Luke, Allegany	0	0	11,338,500	0	2,906,000	2,418,440	1,615,430	18,278,370	0
Bethlehem Steel Corp. Sparrows Point Div., Sparrows Point, Baltimore	0	0	0	0	0	0	1,526,600	1,526,600	0
Eastalco Aluminum Co., Frederick, Frederick	13,027,000	7,000,000	0	0	2,692,000	0	695,938	23,414,938	0
Chemetals Inc., Baltimore Plant, Baltimore, Baltimore City	1,646,372	1,098,327	0	0	200	0	566,105	3,311,004	0
GMC North American Truck Group, Baltimore, Baltimore City	0	434,057	0	4,515	102,127	5,045	481,718	1,027,462	0
Garden State Tanning Inc., W.D. Byron Plant, Williamsport, Washington	0	80,236	0	0	545,946	0	363,125	989,307	0
Terumo Medical Corp., Elkton, Cecil	0	0	0	0	0	56,577	337,360	393,937	0
Lehigh Portland Cement Co., Union Bridge, Carroll	0	0	0	0	0	0	318,500	318,500	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Brandon Shores & Wagner Complex, Baltimore, Anne Arundel	0	0	0	0	0	0	11,450,045	11,450,045	0
Pepco Morgantown Generating Station, Newburg, Charles	0	0	0	0	294,520	0	5,598,003	5,892,523	1
Pepco Chalk Point Generating Station, Aquasco, Prince Georges	0	0	0	0	49,545,708	445	3,429,006	52,975,159	1
Dickerson Generating Station, Dickerson, Montgomery	0	0	0	0	429,000	0	2,830,000	3,259,000	0
C. P. Crane Generating Station, Baltimore, Baltimore City	0	0	0	0	0	0	1,823,624	1,823,624	0
R. Paul Smith Power Station, Williamsport, Washington	0	0	0	0	0	0	152,000	152,000	0
Vienna Power Plant, Vienna, Dorchester	0	0	0	0	0	0	85,788	85,788	0
Mettiki Coal Corp., Oakland, Garrett	0	0	0	0	49,000	0	53,500	102,500	0
Baltimore Terminal, Baltimore, Baltimore City	0	0	0	0	0	908	35,933	36,841	0
Gould Street Generating Station, Baltimore, Baltimore City	0	0	0	0	0	0	32,000	32,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

MASSACHUSETTS

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	4,894,799	5,956,084	10,850,883
Air Emissions	4,838,904	5,906,745	10,745,649
Surface Water Discharges	51,598	10,004	61,602
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	4,297	39,335	43,632
Off-site Releases (Transfers Off-site to Disposal)*	2,381,450	1,715,212	4,096,662
Total On- and Off-site Releases	7,276,249	7,671,296	14,947,545
Recycled On-site	27,120,870	717,005	27,837,875
Recycled Off-site	24,626,565	280,179	24,906,744
Energy Recovery On-site	6,549,099	0	6,549,099
Energy Recovery Off-site	6,991,254	293,466	7,284,720
Treated On-site	21,053,259	66,303	21,119,562
Treated Off-site**	12,325,582	222,973	12,548,555
Quantity Released On- and Off-site***	5,890,441	8,702,021	14,592,462
Total Production-related Waste Managed	104,557,070	10,281,947	114,839,017
Total Non-production-related Waste Managed	707,790	7,135	714,925

Transfers Off-site for Further Waste Management/Disposal

Recycling	24,010,072	356,135	24,366,207
Energy Recovery	6,968,783	292,341	7,261,124
Treatment	4,575,241	147,573	4,722,814
Publicly Owned Treatment Works (POTWs)	6,524,582	30	6,524,612
Metals and Metal Compounds*	23,331	0	23,331
Non-metal TRI Chemicals**	6,501,251	30	6,501,281
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (*not including metals to POTWs*)	2,360,666	1,800,978	4,161,644
Total Transfers Off-site for Further Waste Management/Disposal	44,439,344	2,597,057	47,036,401

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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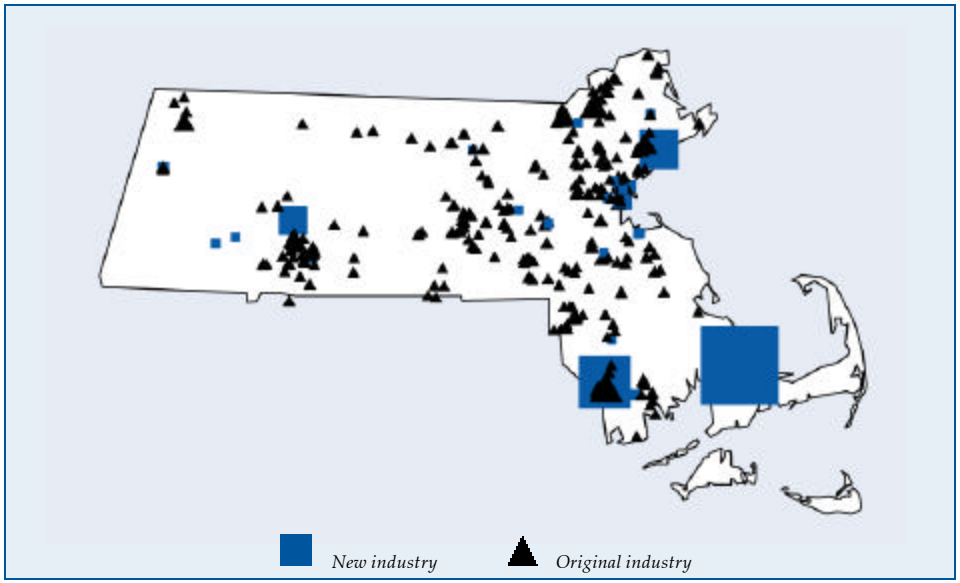

The largest marker in the state map represents the largest facility for on-site releases in the state of Massachusetts. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	6,147,132
Square Miles	7,838
Total Facilities	503
Total Forms	1,501
Form As	228

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	41	43	44
Pounds	7,276,249	7,671,296	14,947,545
National Rank for Total On-site Releases**			
Rank	42	43	45
Pounds	4,894,799	5,956,084	10,850,883
National Rank for Total Releases within State***			
Rank	43	43	45
Pounds	5,807,203	7,433,142	13,240,345
National Rank for Production-related Waste Managed			
Rank	35	43	40
Pounds	104,557,070	10,281,947	114,839,017

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory MASSACHUSETTS

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
108-88-3	Toluene	1,651,892	0	0	0	9,836	1,661,728	4,828	5,650	4,186
7440-50-8	Copper	1,971	371	0	5	797,626	799,973	8,976	13,191	784,435
78-93-3	Methyl ethyl ketone	479,318	0	0	0	97,974	577,292	19,879	7,948	90,026
—	Zinc compounds	8,124	422	0	29	466,358	474,933	24,174	187,581	278,777
67-56-1	Methanol	316,069	0	0	500	3,934	320,503	7,031	0	3,934
79-01-6	Trichloroethylene	308,487	5	0	0	217	308,709	4,235	217	0
—	Glycol ethers	306,500	0	0	0	506	307,006	21,020	0	506
1330-20-7	Xylene (mixed isomers)	240,491	0	0	0	3,048	243,539	11,265	1,317	1,731
71-36-3	n-Butyl alcohol	236,370	0	0	0	0	236,370	0	0	0
7664-41-7	Ammonia	175,173	776	0	0	2,074	178,023	0	2,000	74

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	2,836,941	0	0	0	0	2,836,941	0	0	0
7664-41-7	Ammonia	2,346,114	9	0	0	0	2,346,123	0	0	0
—	Lead compounds	204	5	0	200	1,239,598	1,240,007	261	963,249	276,349
—	Nickel compounds	26,103	190	0	6,000	192,875	225,168	16,651	57,940	134,935
7664-39-3	Hydrogen fluoride	175,500	0	0	0	0	175,500	0	0	0
7664-93-9	Sulfuric acid	149,000	0	0	0	0	149,000	0	0	0
1634-04-4	Methyl tert-butyl ether	123,033	4,265	0	0	10,041	137,339	1,832	1,098	8,943
—	Barium compounds	1,341	127	0	1,900	128,044	131,412	18,000	128,040	4
—	Manganese compounds	1,170	5	0	29,000	58,350	88,525	0	58,350	0
110-54-3	n-Hexane	82,172	120	0	0	4,552	86,844	435	1,513	3,039

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory MASSACHUSETTS

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Globe Mfg. Co., Fall River, Bristol	496,271	0	0	0	0	0	496,271	640	50,710
Crown Cork & Seal Co. Inc., Lawrence, Essex	391,768	0	0	0	0	0	391,768	5	250
Rexam Graphics, South Hadley, Hampshire	242,360	0	0	0	0	0	242,360	250	0
Polyfibron Techs. Inc, Adams, Berkshire	217,334	0	0	0	0	0	217,334	0	0
Ideal Tape Co., Lowell, Middlesex	170,704	0	0	0	0	0	170,704	0	0
Alliance Leather Inc., Peabody, Essex	146,137	0	0	0	0	0	146,137	0	0
Solutia Inc., Springfield, Hampden	108,878	0	0	0	0	0	108,878	51	0
Hub Fabric Leather Co. Inc., Everett, Middlesex	100,874	0	0	0	0	0	100,874	0	0
Duro Finishing, Fall River, Bristol	98,823	0	0	0	0	0	98,823	251	0
Bradford Ind. Inc., Lowell, Middlesex	94,000	0	0	0	0	0	94,000	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Canal Electric Co., Sandwich, Barnstable	1,973,030	0	0	0	0	0	1,973,030	0	75,616
US Gen New England Inc., Somerset, Bristol	1,176,137	139	0	0	0	37,735	1,214,011	72,330	395
US Gen New England Inc. — Salem Harbor Station, Salem, Essex	858,320	340	0	0	0	0	858,660	234,400	0
Somerset Power L.L.C., Somerset, Bristol	667,279	52	0	0	0	0	667,331	49,000	0
Mt. Tom Station, Holyoke, Hampden	551,061	0	0	0	0	1,600	552,661	27,000	4
Mystic Station, Charlestown, Suffolk	133,468	0	0	0	0	0	133,468	0	59,319
New Boston Station, South Boston, Suffolk	130,211	0	0	0	0	0	130,211	0	0
Masspower, Indian Orchard, Hampden	82,880	0	0	0	0	0	82,880	0	0
Pittsfield Generating Co. L.P., Pittsfield, Berkshire	48,240	0	0	0	0	0	48,240	0	0
Gulf Oil Ltd. Ptnr. Chelsea Terminal, Chelsea, Suffolk	41,098	40	0	0	0	0	41,138	4,137	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory MASSACHUSETTS

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Globe Mfg. Co., Fall River, Bristol	5,974,000	0	0	9,560	0	60,591	496,880	6,541,031	0
Crown Cork & Seal Co. Inc., Lawrence, Essex	0	0	0	0	76,000	7	390,270	466,277	0
Rexam Graphics, South Hadley, Hampshire	0	63,550	0	719,410	3,563,710	724	242,483	4,589,877	0
Polyfibron Techs. Inc, Adams, Berkshire	890,000	0	0	42,179	50,994	0	217,334	1,200,507	0
Ideal Tape Co., Lowell, Middlesex	1,458,974	645,508	0	158,965	0	0	170,704	2,434,151	0
American Insulated Wire Northeast Cable, Attleboro, Bristol	4,600	5,318,940	0	8,000	29,000	0	156,920	5,517,460	0
Alliance Leather Inc., Peabody, Essex	0	0	0	2,886	0	0	146,137	149,023	0
Solutia Inc., Springfield, Hampden	0	0	0	0	259,063	4,366,582	109,042	4,734,687	0
Wollaston Alloys Inc., Braintree, Norfolk	1,630,244	84,300	0	0	0	0	107,544	1,822,088	0
Hub Fabric Leather Co. Inc., Everett, Middlesex	0	0	0	0	0	0	100,874	100,874	2

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Clean Harbors of Braintree Inc., Braintree, Norfolk	56,630	39,879	0	257,760	0	109,254	2,100,322	2,563,845	5
Canal Electric Co., Sandwich, Barnstable	0	0	0	0	757	0	2,048,237	2,048,994	0
US Gen New England Inc., Somerset, Bristol	0	0	0	0	150	0	1,288,400	1,288,550	0
US Gen New England Inc. — Salem Harbor Station, Salem, Essex	0	560	0	0	0	0	1,103,930	1,104,490	0
Somerset Power L.L.C., Somerset, Bristol	0	0	0	0	61,000	0	717,000	778,000	0
Mt. Tom Station, Holyoke, Hampden	0	0	0	0	0	0	580,000	580,000	0
Mystic Station, Charlestown, Suffolk	0	0	0	0	0	0	192,588	192,588	0
New Boston Station, South Boston, Suffolk	0	0	0	0	0	0	129,854	129,854	0
Global Petroleum Corp., Revere, Suffolk	0	0	0	0	0	65,979	105,521	171,500	223
Masspower, Indian Orchard, Hampden	0	0	0	0	0	0	83,000	83,000	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

1998 Toxics Release Inventory

MICHIGAN

Reported Releaes and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	47,070,331	52,097,849	99,168,180
Air Emissions	40,997,059	34,096,574	75,093,633
Surface Water Discharges	483,956	201,693	685,649
Underground Injection Class I Wells	3,431,059	0	3,431,059
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	86,194	8,258,900	8,345,094
Other On-site Land Releases	2,072,063	9,540,682	11,612,745
Off-site Releases (Transfers Off-site to Disposal)*	36,042,210	5,733,627	41,775,837
Total On- and Off-site Releases	83,112,541	57,831,476	140,944,017
Recycled On-site	335,609,755	35,404,698	371,014,453
Recycled Off-site	113,906,959	786,852	114,693,811
Energy Recovery On-site	179,352,021	0	179,352,021
Energy Recovery Off-site	62,742,845	130,246,849	192,989,694
Treated On-site	92,220,412	12,491,755	104,712,167
Treated Off-site**	41,034,588	43,980,512	85,015,100
Quantity Released On- and Off-site***	83,342,074	57,001,140	140,343,214
Total Production-related Waste Managed	908,208,654	279,911,806	1,188,120,460
Total Non-production-related Waste Managed	412,668	369	413,037

Transfers Off-site for Further Waste Management/Disposal

Recycling	113,717,904	744,803	114,462,707
Energy Recovery	64,830,135	134,377,493	199,207,628
Treatment	24,144,366	44,110,210	68,254,576
Publicly Owned Treatment Works (POTWs)	17,407,924	511,317	17,919,241
Metals and Metal Compounds*	132,499	468,195	600,694
Non-metal TRI Chemicals**	17,275,425	43,122	17,318,547
Other Off-site Transfers****	24,838	0	24,838
Off-site Transfers to Disposal *(not including metals to POTWs)*	36,446,152	5,424,740	41,870,892
Total Transfers Off-site for Further Waste Management/Disposal	256,571,319	185,168,563	441,739,882

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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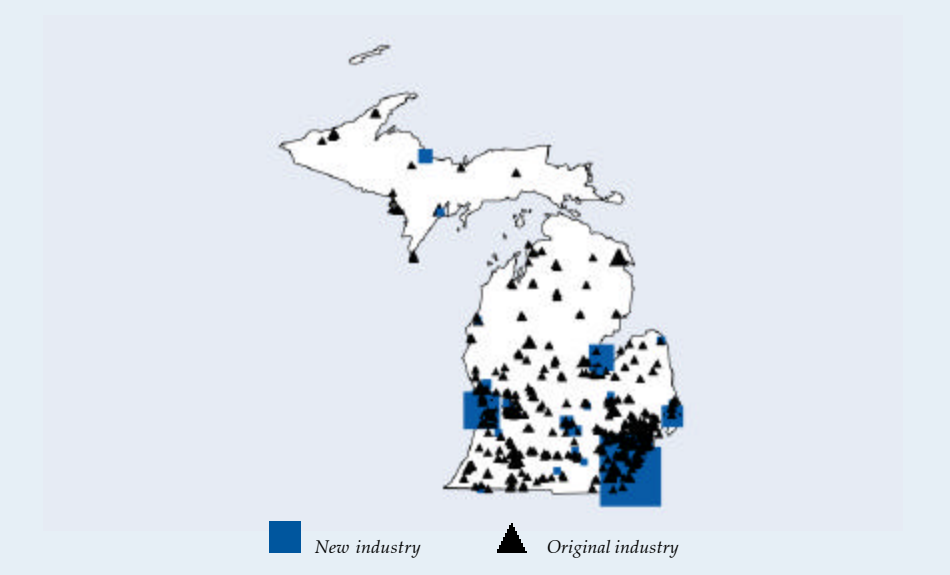

The largest marker in the state map represents the largest facility for on-site releases in the state of Michigan. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	9,817,242
Square Miles	56,809
Total Facilities	956
Total Forms	3,786
Form As	432

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	10	18	14
Pounds	83,112,541	57,831,476	140,944,017
National Rank for Total On-site Releases**			
Rank	18	19	20
Pounds	47,070,331	52,097,849	99,168,180
National Rank for Total Releases within State***			
Rank	8	18	12
Pounds	94,165,876	57,868,372	152,034,248
National Rank for Production-related Waste Managed			
Rank	7	6	7
Pounds	908,208,654	279,911,806	1,188,120,460

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

MICHIGAN

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Zinc compounds	338,245	8,428	9,500	83,709	25,370,698	25,810,580	6,560,679	25,072,260	390,378
1330-20-7	Xylene (mixed isomers)	7,664,450	30	0	24	23,937	7,688,441	9,937	13,250	12,307
67-56-1	Methanol	4,344,048	126,052	2,900,000	4,622	1,724	7,376,446	1,665	2,469	255
108-88-3	Toluene	5,669,062	222	10,190	25	50,356	5,729,855	2,728	38,539	12,517
7647-01-0	Hydrochloric acid	3,046,232	0	5	0	264	3,046,501	0	255	9
7439-96-5	Manganese	70,881	142	0	440,260	2,201,738	2,713,021	176,392	2,178,033	54,705
—	Manganese compounds	26,881	22,227	0	290,900	2,303,742	2,643,750	982,898	2,272,900	30,842
7664-41-7	Ammonia	1,929,696	155,938	29,899	2,814	33,749	2,152,096	6,448	33,749	0
100-42-5	Styrene	2,054,591	250	0	550	15,134	2,070,525	17,486	13,720	1,414
—	Glycol ethers	2,003,810	548	0	12,000	50,106	2,066,464	18,505	27,797	22,309

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	24,824,789	0	0	0	0	24,824,789	255	0	0
—	Barium compounds	110,340	87,881	0	9,814,374	2,103,423	12,116,018	2,001	1,960,333	143,253
7664-93-9	Sulfuric acid	3,332,551	0	0	0	0	3,332,551	0	0	0
7440-66-6	Zinc (fume or dust)	2,570,574	1	0	4	1	2,570,580	500	1	0
7664-39-3	Hydrogen fluoride	2,463,695	0	0	0	0	2,463,695	250	0	0
—	Lead compounds	2,795	7,533	0	1,074,123	800,511	1,884,962	38,565	651,183	149,336
—	Nickel compounds	22,242	9,790	0	1,191,442	289,642	1,513,116	113,218	287,532	2,113
—	Zinc compounds	168,865	10,518	0	1,142,298	168,448	1,490,129	169,382	167,539	921
—	Arsenic compounds	594	1,410	0	879,022	254,136	1,135,162	467	143,008	111,133
—	Selenium compounds	9,501	1,060	0	885,870	224,419	1,120,850	0	155,306	69,118

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

MICHIGAN

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Holnam Inc., Dundee Plant, Dundee, Monroe	2,752,121	0	0	0	0	0	2,752,121	0	0
Warner-Lambert Co., Parke-Davis Div., Holland, Ottawa	215,206	0	2,075,420	0	0	0	2,290,626	7,510	0
Lafarge Corp. (Including Systech Env. Corp.), Alpena, Alpena	1,545,752	216	0	0	0	431,000	1,976,968	0	15
Intertape Polymer Group, Marysville, St Clair	1,752,847	0	0	0	0	0	1,752,847	1,711	1,005
Pharmacia & Upjohn, Kalamazoo, Kalamazoo	191,451	48,471	1,325,706	0	0	0	1,565,628	34,018	12,037
Fibermark, Rochester, Oakland	1,535,771	0	0	0	0	0	1,535,771	0	0
GMPT Saginaw Metal Casting Ops., Saginaw, Saginaw	151,074	0	0	0	0	1,129,950	1,281,024	1,386	620
Vemco Inc., Grand Blanc, Genesee	1,239,333	0	0	0	0	0	1,239,333	0	0
Steelcase Inc., Grand Rapids, Kent	1,124,049	0	0	0	0	0	1,124,049	9,129	0
GM MLCG — Hamtramck Assembly, Detroit, Wayne	1,105,809	0	0	0	0	0	1,105,809	7,812	21,277

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Detroit Edison Monroe Power Plant, Monroe, Monroe	8,058,508	11,622	0	0	0	4,538,272	12,608,402	57	0
Wayne Disposal Inc., Belleville, Wayne	8,760	0	0	0	8,258,900	0	8,267,660	1,082,362	15,297
J.H. Campbell Generating Plant, West Olive, Ottawa	5,912,302	17,056	0	0	0	939,770	6,869,128	0	0
De Karn — JC Weadock Generating Plt., Essexville, Bay	3,545,292	53,625	0	0	0	701,000	4,299,917	0	0
Detroit Edison St., Clair Power Plant, East China Township, St Clair	1,682,933	6,545	0	0	0	1,573,296	3,262,774	0	0
Grand Haven Board of Light & Power, Grand Haven, Ottawa	2,774,125	27	0	0	0	4	2,774,156	5	0
J.R. Whiting Generating Plant, Luna Pier, Monroe	2,086,874	573	0	0	0	151,000	2,238,447	0	0
Detroit Edison — River Rouge Power Plant, River Rouge, Wayne	1,930,681	6,948	0	0	0	92,073	2,029,702	412,447	0
Detroit Edison — Trenton Channel Power Plant, Trenton, Wayne	1,622,379	17,340	0	0	0	132,630	1,772,349	652,740	0
Detroit Edison, Belle River Power Plant, China Township, St Clair	437,590	45,940	0	0	0	1,181,299	1,664,829	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

MICHIGAN

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Rouge Steel Co., Dearborn, Wayne	0	429,350	0	0	0	0	16,076,600	16,505,950	0
Natl. Steel Corp., Greatlakes Div., Ecorse, Wayne	2,527,736	2,237	0	87	29,000	99,022	11,042,697	13,700,779	0
Holnam Inc., Dundee Plant, Dundee, Monroe	0	0	0	0	0	0	2,752,121	2,752,121	0
Warner-Lambert Co., Parke-Davis Div., Holland, Ottawa	4,805,000	498,470	0	12,185,220	1,540,550	3,758,710	2,327,871	25,115,821	290
Lafarge Corp. (Including Systech Env. Corp.), Alpena, Alpena	0	0	31,146,000	0	1,777	1,393	1,977,304	33,126,474	0
Intertape Polymer Group, Marysville, St Clair	15,390,285	0	0	0	1,464,000	27,404	1,765,455	18,647,144	0
Pharmacia & Upjohn, Kalamazoo, Kalamazoo	0	0	316,876	19,139,023	1,959,306	9,282,988	1,656,431	32,354,624	106
Fibermark, Rochester, Oakland	0	0	0	0	0	47,202	1,534,750	1,581,952	0
GMPT Saginaw Metal Casting Ops., Saginaw, Saginaw	0	72,933	0	0	610,000	90	1,282,300	1,965,323	0
Vemco Inc., Grand Blanc, Genesee	0	750,116	0	0	804,248	23,151	1,239,333	2,816,848	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Detroit Edison Monroe Power Plant, Monroe, Monroe	0	0	0	0	2,120,000	0	12,584,000	14,704,000	0
Wayne Disposal Inc., Belleville, Wayne	0	67	0	17	706,940	2,610	9,338,600	10,048,234	7
J.H. Campbell Generating Plant, West Olive, Ottawa	0	0	0	0	2,061,000	0	6,870,000	8,931,000	2
De Karn — JC Weadock Generating Plt., Essexville, Bay	0	0	0	0	1,064,000	0	4,294,550	5,358,550	0
Detroit Edison St., Clair Power Plant, East China Township, St Clair	0	0	0	0	1,380,000	0	3,260,200	4,640,200	0
Grand Haven Board of Light & Power, Grand Haven, Ottawa	0	0	0	0	0	0	2,755,788	2,755,788	0
Detroit Edison — River Rouge Power Plant, River Rouge, Wayne	0	0	0	0	421,000	0	2,443,000	2,864,000	0
Detroit Edison — Trenton Channel Power Plant, Trenton, Wayne	0	0	0	0	917,000	0	2,422,550	3,339,550	0
J.R. Whiting Generating Plant, Luna Pier, Monroe	0	0	0	0	228,500	0	2,238,000	2,466,500	0
Lansing Board Water & Light Eckert Station, Lansing, Ingham	0	145,300	0	0	0	0	1,692,773	1,838,073	6

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

MINNESOTA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	17,004,641	11,889,243	28,893,884
Air Emissions	15,904,943	1,773,087	17,678,030
Surface Water Discharges	812,176	18,641	830,817
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	1,069	0	1,069
Other On-site Land Releases	286,453	10,097,515	10,383,968
Off-site Releases (Transfers Off-site to Disposal)*	2,375,503	1,106,939	3,482,442
Total On- and Off-site Releases	19,380,144	12,996,182	32,376,326
Recycled On-site	187,351,415	4,031,921	191,383,336
Recycled Off-site	21,940,758	1,162,699	23,103,457
Energy Recovery On-site	7,034,602	0	7,034,602
Energy Recovery Off-site	2,191,446	105,123	2,296,569
Treated On-site	36,106,015	1,539,758	37,645,773
Treated Off-site**	10,716,446	13,323	10,729,769
Quantity Released On- and Off-site***	20,096,775	12,945,025	33,041,800
Total Production-related Waste Managed	285,437,457	19,797,849	305,235,306
Total Non-production-related Waste Managed	19,320	251	19,571

Transfers Off-site for Further Waste Management/Disposal

Recycling	21,932,542	1,162,905	23,095,447
Energy Recovery	2,197,041	105,133	2,302,174
Treatment	1,245,251	1,197	1,246,448
Publicly Owned Treatment Works (POTWs)	9,635,673	15,027	9,650,700
Metals and Metal Compounds*	134,379	2,550	136,929
Non-metal TRI Chemicals**	9,501,294	12,477	9,513,771
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *not including metals to POTWs)*	2,731,634	1,104,389	3,836,023
Total Transfers Off-site for Further Waste Management/Disposal	37,742,141	2,388,651	40,130,792

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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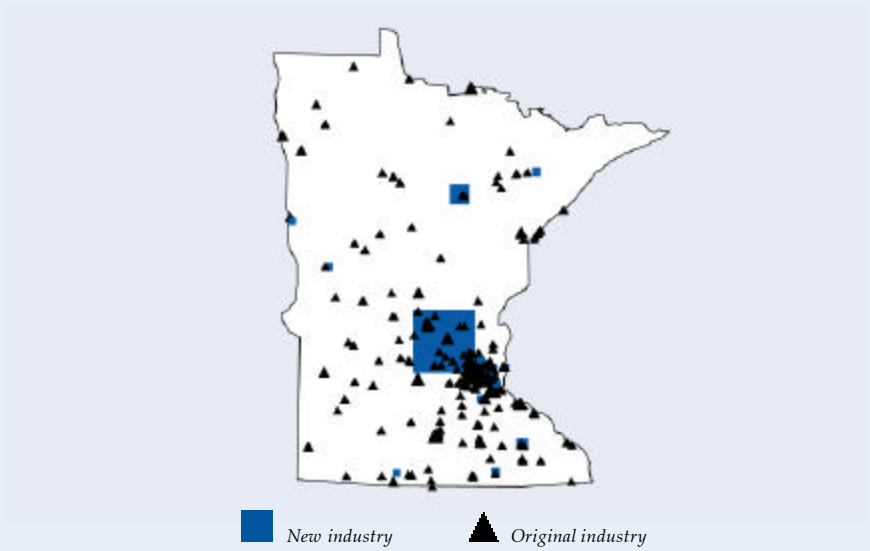
To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Minnesota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data†

Population	4,725,419
Square Miles	79,617
Total Facilities	496
Total Forms	1,482
Form As	308

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	34	36	36
Pounds	19,380,144	12,996,182	32,376,326
National Rank for Total On-site Releases**			
Rank	33	35	36
Pounds	17,004,641	11,889,243	28,893,884
National Rank for Total Releases within State***			
Rank	34	36	36
Pounds	18,085,510	13,171,883	31,257,393
National Rank for Production-related Waste Managed			
Rank	26	35	30
Pounds	285,437,457	19,797,849	305,235,306

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

† *One facility, reporting 1.3 million pounds released on-site and total production-related waste managed, was incorrectly located in this state. Removal of this facility changes the national rank for total on-site releases for new industries from 35 to 37, for total releases within the state for total industries from 36 to 37, and for production-related waste managed for new industries from 35 to 38.*

1998 Toxics Release Inventory

MINNESOTA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
1330-20-7	Xylene (mixed isomers)	1,953,526	197	0	398	21,292	1,975,413	42,701	16,222	5,070
110-54-3	n-Hexane	1,962,581	5	0	250	1,134	1,963,970	0	1,040	94
108-88-3	Toluene	1,945,295	206	0	0	11,566	1,957,067	12,486	10,947	619
100-42-5	Styrene	1,645,322	5	0	0	21,431	1,666,758	11	16,347	5,084
67-56-1	Methanol	1,489,787	12,057	0	2,500	4,236	1,508,580	15,351	4,236	0
7664-41-7	Ammonia	1,166,787	85,985	0	44,959	49,193	1,346,924	22	49,193	0
78-93-3	Methyl ethyl ketone	872,913	199	0	0	4,792	877,904	42,813	4,366	426
—	Glycol ethers	817,598	862	0	0	687	819,147	2,399	224	463
71-36-3	n-Butyl alcohol	702,795	0	0	0	0	702,795	220	0	0
—	Zinc compounds	28,147	4,846	0	17,000	615,971	665,964	9,070	61,260	554,713

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Barium compounds	59,313	7,455	0	7,559,285	992,840	8,618,893	150,000	992,820	20
—	Manganese compounds	9,430	8,200	0	1,219,915	23,370	1,260,915	19,000	23,360	10
7647-01-0	Hydrochloric acid	699,030	0	0	0	0	699,030	0	0	0
7664-39-3	Hydrogen fluoride	579,030	0	0	0	0	579,030	0	0	0
—	Zinc compounds	5,037	1,075	0	495,015	2,475	503,602	303	2,470	5
—	Copper compounds	5,840	1,175	0	334,020	1,425	342,460	1,300	1,420	5
7664-93-9	Sulfuric acid	224,265	0	0	0	0	224,265	0	0	0
—	Lead compounds	2,360	0	0	206,010	32	208,402	11	10	22
—	Nickel compounds	11,640	431	0	88,275	79,795	180,141	620	79,795	0
7664-41-7	Ammonia	147,099	0	0	5	0	147,104	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory MINNESOTA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Koch Refining Co. L.P., Rosemount, Dakota	456,459	616,531	0	0	0	49	1,073,039	32,724	34
Ford Motor Co. — Twin Cities Assembly Plant, Saint Paul, Ramsey	854,652	0	0	0	0	0	854,652	1,095	13,131
Cenex Harvest States Oilseed Processing & Refining, Mankato, Blue Earth	733,000	0	0	0	250	0	733,250	0	0
Boise Cascade Corp., International Falls, Koochiching	506,568	50,260	0	0	0	44,523	601,351	0	0
3M, Cottage Grove Center, Cottage Grove, Washington	490,648	56,145	0	0	0	0	546,793	4,865	267,139
3M Hutchinson, Hutchinson, Mc Leod	541,365	0	0	0	0	0	541,365	22,930	7,080
Crystal Cabinet Works Inc., Princeton, Sherburne	515,272	0	0	0	0	0	515,272	0	0
3M, Saint Paul, Ramsey	453,689	0	0	0	0	0	453,689	5,464	0
Frigidaire Home Prods. — Freezer, Saint Cloud, Stearns	378,044	0	0	0	0	0	378,044	33,000	0
American Crystal Sugar Co., East Grand Forks, Polk	343,250	24,000	0	0	0	0	367,250	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)†

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Northern States Power Co., Becker, Sherburne	121,446	470	0	0	0	7,367,685	7,489,601	610	17
Boswell Energy Center, Cohasset, Itasca	124,200	11,190	0	0	0	1,600,025	1,735,415	50	25
Rochester Public Utilities Silver Lake Plant, Rochester, Olmsted	512,000	0	0	0	0	0	512,000	5,470	0
Austin Utilities Northeast Power Station, Austin, Mower	149,800	15	0	0	0	0	149,815	12,200	0
Laskin Energy Center, Hoyt Lakes, St Louis	2,105	4,000	0	0	0	130,005	136,110	10	0
LSP — Cottage Grove L.P., Cottage Grove, Washington	120,005	0	0	0	0	0	120,005	0	0
Otter Tail Power Co., Hoot Lake Plant, Fergus Falls, Otter Tail	14,402	0	0	0	0	100,000	114,402	1,700	0
A.S. King Generating Plant, Bayport, Washington	89,211	1,580	0	0	0	15	90,806	547,020	5
High Bridge Generating Plant, Saint Paul, Ramsey	31,315	0	0	0	0	52,000	83,315	100,260	5
Black Dog Generating Plant, Burnsville, Dakota	32,715	30	0	0	0	30,005	62,750	121,215	5

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.
†*One facility was incorrectly located in this state. It ranked third with total on-site releases of 1,311,745 pounds. It is instead located in Iowa and has been removed from this list.*

1998 Toxics Release Inventory

MINNESOTA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
North Star Recycling, Saint Paul, Ramsey	0	0	0	0	0	0	1,241,207	1,241,207	0
Koch Refining Co. L.P., Rosemount, Dakota	164,650	99,532	0	0	1,283,150	348	1,105,721	2,653,401	2,999
Ford Motor Co. — Twin Cities Assembly Plant, Saint Paul, Ramsey	0	874,096	0	0	428,900	15,900	866,379	2,185,275	0
3M, Cottage Grove Center, Cottage Grove, Washington	0	1,101,552	1,291,640	454,480	15,203,124	145,049	845,805	19,041,650	8
Cenex Harvest States Oilseed Processing & Refining, Mankato, Blue Earth	0	17,000	0	0	16,200	600	730,000	763,800	0
Boise Cascade Corp., International Falls, Koochiching	0	0	3,040,000	0	4,658,000	0	602,410	8,300,410	0
3M Hutchinson, Hutchinson, Mc Leod	20,471,000	1,100,000	0	59,390	3,193,000	406,900	579,836	25,810,126	0
Crystal Cabinet Works Inc., Princeton, Sherburne	0	163,123	0	0	0	0	515,312	678,435	0
3M, Saint Paul, Ramsey	0	24,200	228,648	18,359	2,308,829	130,163	459,153	3,169,352	0
Frigidaire Home Prods. — Freezer, Saint Cloud, Stearns	0	36,000	0	0	0	3,500	411,035	450,535	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)†

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Northern States Power Co., Becker, Sherburne	0	0	0	0	589,100	0	7,453,651	8,042,751	0
Boswell Energy Center, Cohasset, Itasca	0	0	0	0	122,000	0	1,727,000	1,849,000	0
A.S. King Generating Plant, Bayport, Washington	0	0	0	0	83,000	0	635,300	718,300	0
Rochester Public Utilities Silver Lake Plant, Rochester, Olmsted	0	0	0	0	0	0	513,100	513,100	0
Riverside Generating Plant, Minneapolis, Hennepin	0	0	0	0	81,000	0	376,000	457,000	0
Black Dog Generating Plant, Burnsville, Dakota	0	0	0	0	50,000	0	181,200	231,200	0
High Bridge Generating Plant, Saint Paul, Ramsey	0	0	0	0	49,000	0	178,800	227,800	0
Austin Utilities Northeast Power Station, Austin, Mower	0	0	0	0	128,000	0	161,800	289,800	0
Laskin Energy Center, Hoyt Lakes, St Louis	0	0	0	0	0	0	140,000	140,000	0
LSP — Cottage Grove L.P., Cottage Grove, Washington	0	0	0	0	0	0	120,000	120,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*
†One facility was incorrectly located in this state. It ranked third with quantity released on- and off-site of 1,318,000 pounds. It is instead located in Iowa and has been removed from this list.

1998 Toxics Release Inventory

MISSISSIPPI

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	59,222,142	11,341,302	70,563,444
Air Emissions	35,436,941	9,308,024	44,744,965
Surface Water Discharges	11,383,390	4,748	11,388,138
Underground Injection Class I Wells	6,892,506	0	6,892,506
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	6,703	0	6,703
Other On-site Land Releases	5,502,602	2,028,530	7,531,132
Off-site Releases (Transfers Off-site to Disposal)*	1,187,049	751	1,187,800
Total On- and Off-site Releases	60,409,191	11,342,053	71,751,244
Recycled On-site	218,143,589	0	218,143,589
Recycled Off-site	17,567,013	78,964	17,645,977
Energy Recovery On-site	26,001,891	0	26,001,891
Energy Recovery Off-site	5,817,512	111,993	5,929,505
Treated On-site	159,925,362	0	159,925,362
Treated Off-site**	2,051,241	188,094	2,239,335
Quantity Released On- and Off-site***	69,192,130	11,340,836	80,532,966
Total Production-related Waste Managed	498,698,738	11,719,887	510,418,625
Total Non-production-related Waste Managed	447,356	4	447,360

Transfers Off-site for Further Waste Management/Disposal

Recycling	17,146,876	78,964	17,225,840
Energy Recovery	5,840,253	111,993	5,952,246
Treatment	1,386,203	188,094	1,574,297
Publicly Owned Treatment Works (POTWs)	583,904	0	583,904
Metals and Metal Compounds*	8,291	0	8,291
Non-metal TRI Chemicals**	575,613	0	575,613
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	1,290,269	751	1,291,020
Total Transfers Off-site for Further Waste Management/Disposal	26,247,505	379,802	26,627,307

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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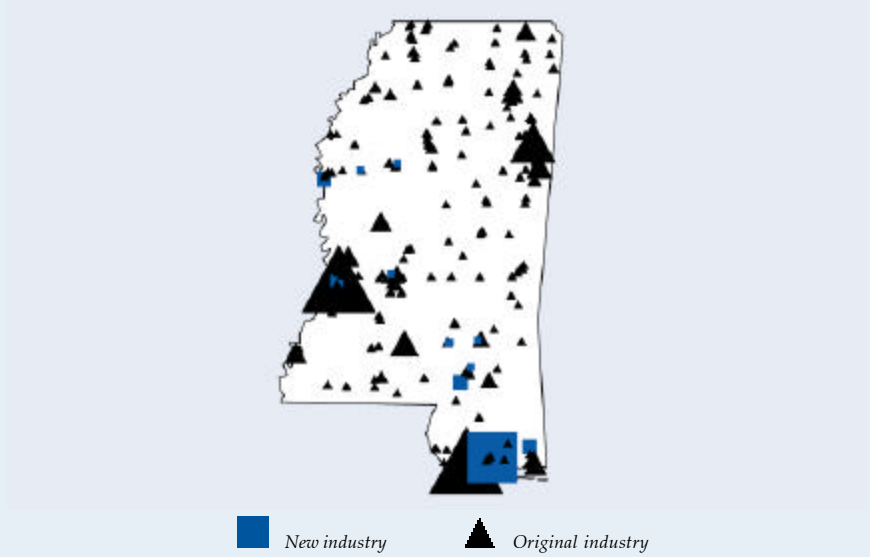

The largest marker in the state map represents the largest facility for on-site releases in the state of Mississippi. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	2,752,092
Square Miles	46,914
Total Facilities	342
Total Forms	1,221
Form As	220

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	13	37	25
Pounds	60,409,191	11,342,053	71,751,244
National Rank for Total On-site Releases**			
Rank	12	36	25
Pounds	59,222,142	11,341,302	70,563,444
National Rank for Total Releases within State***			
Rank	13	37	26
Pounds	60,370,437	11,366,012	71,736,449
National Rank for Production-related Waste Managed			
Rank	19	42	22
Pounds	498,698,738	11,719,887	510,418,625

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

MISSISSIPPI

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-Site Releases: Air Emissions Pounds	On-Site Releases: Surface Water Discharges Pounds	On-Site Releases: Underground Injection Pounds	On-Site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Manganese compounds	21,766	149,046	5,700,000	4,790,438	85,645	10,746,895	7,723	85,645	0
—	Nitrate compounds	12,182	10,560,518	0	0	63,493	10,636,193	0	62,293	1,200
67-56-1	Methanol	8,112,984	129,462	0	5,036	8,425	8,255,907	0	8,425	0
7664-41-7	Ammonia	4,581,302	250,821	0	95,023	10,307	4,937,453	0	0	10,307
108-88-3	Toluene	3,684,826	6,114	310	282	14,536	3,706,068	0	12,250	2,286
75-09-2	Dichloromethane	3,355,695	0	0	0	900	3,356,595	0	0	900
78-93-3	Methyl ethyl ketone	2,674,002	1,031	8,289	5	811	2,684,138	16,855	754	57
110-54-3	n-Hexane	2,316,518	17	0	0	340	2,316,875	0	0	340
1330-20-7	Xylene (mixed isomers)	1,952,003	0	0	0	0	1,952,003	0	0	0
463-58-1	Carbonyl sulfide	1,471,340	0	0	0	0	1,471,340	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-Site Releases: Air Emissions Pounds	On-Site Releases: Surface Water Discharges Pounds	On-Site Releases: Underground Injection Pounds	On-Site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	6,246,437	0	0	0	0	6,246,437	0	0	0
7664-93-9	Sulfuric acid	2,566,012	0	0	0	0	2,566,012	0	0	0
—	Barium compounds	2,656	2,197	0	1,043,120	0	1,047,973	0	0	0
—	Manganese compounds	1,379	266	0	577,254	0	578,899	0	0	0
7664-39-3	Hydrogen fluoride	451,013	0	0	0	0	451,013	0	0	0
—	Zinc compounds	1,945	218	0	108,083	0	110,246	0	0	0
—	Copper compounds	411	281	0	73,741	0	74,433	0	0	0
—	Nickel compounds	558	357	0	63,638	0	64,553	0	0	0
—	Chromium compounds	502	186	0	63,713	0	64,401	2,330	0	0
7439-92-1	Lead	299	46	0	38,632	0	38,977	2,588	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

MISSISSIPPI

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Du Pont Delisle Plant, Pass Christian, Harrison	1,957,716	0	6,880,000	0	0	0	8,837,716	0	0
Vicksburg Chemical Co., Vicksburg, Warren	84,010	8,310,623	0	0	0	0	8,394,633	0	0
Kerr-McGee Chemical LLC, Electrolytic Plant, Hamilton, Monroe	181,824	15,902	0	0	0	4,430,000	4,627,726	0	28,000
Georgia-Pacific Corp., Monticello, Lawrence	2,065,272	258,531	0	0	0	220,902	2,544,705	0	0
Gencorp, Columbus, Lowndes	2,218,010	0	0	0	0	0	2,218,010	49,105	0
Ergon Refining Inc., Vicksburg, Warren	1,971,116	24,580	0	0	0	0	1,995,696	0	0
International Paper, Natchez Mill, Natchez, Adams	1,287,834	56,091	0	0	0	441,795	1,785,720	12,938	0
International Paper, Vicksburg Mill, Redwood, Warren	1,582,431	7,295	0	0	0	103,929	1,693,655	0	0
Chevron Prods. Co., Pascagoula Refy., Pascagoula, Jackson	1,476,478	213,271	0	0	0	1,102	1,690,851	63,620	1,356
Mississippi Chemical Corp., Yazoo City, Yazoo	686,993	1,000,015	0	0	0	0	1,687,008	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Mississippi Power Co. — Plant Watson, Gulfport, Harrison	6,266,016	4,575	0	0	0	666,934	6,937,525	0	0
R. D. Morrow Sr. Generating Plant, Purvis, Lamar	720,854	137	0	0	0	489,689	1,210,680	0	0
Entergy Gerald Andrus Plant, Greenville, Washington	1,188,019	0	0	0	0	0	1,188,019	0	0
Mississippi Power Co. — Plant Daniel, Escatawpa, Jackson	206,994	0	0	0	0	871,907	1,078,901	0	0
Entergy Baxter Wilson Generating Plant, Vicksburg, Warren	889,593	0	0	0	0	0	889,593	0	0
Amerada Hess Corp., Collins, Covington	8,864	11	0	0	0	0	8,875	0	0
Amerada Hess Corp. Purvis Terminal, Purvis, Lamar	8,078	0	0	0	0	0	8,078	0	1
Scott Petroleum Corp., Greenwood, Leflore	6,550	0	0	0	0	0	6,550	0	0
Ashland Distribution Co., Jackson, Hinds	4,543	0	0	0	0	0	4,543	0	0
Mobil Oil T&M Terminal, Collins, Covington	3,810	25	0	0	0	0	3,835	0	750

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

MISSISSIPPI

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Leaf River Forest Prods., New Augusta, Perry	0	0	0	0	45,011,060	0	9,293,930	54,304,990	0
Du Pont Delisle Plant, Pass Christian, Harrison	0	0	0	0	9,410,000	18,000	8,837,716	18,265,716	0
Vicksburg Chemical Co., Vicksburg, Warren	499,680	0	0	0	5,248,788	0	8,394,746	14,143,214	50
Kerr-McGee Chemical LLC, Electrolytic Plant, Hamilton, Monroe	276,000	28,000	0	0	2,486,000	0	4,597,300	7,387,300	0
Georgia-Pacific Corp., Monticello, Lawrence	0	0	0	0	7,604,230	0	2,544,705	10,148,935	0
Gencorp, Columbus, Lowndes	928,500	0	0	96,000	379,000	3,581	2,322,400	3,729,481	0
Ergon Refining Inc., Vicksburg, Warren	0	0	0	0	1,400	0	2,010,000	2,011,400	0
International Paper, Natchez Mill, Natchez, Adams	0	0	24,157	0	8,031,901	0	1,797,458	9,853,516	0
Chevron Prods. Co., Pascagoula Refy., Pascagoula, Jackson	0	949,400	0	1,740	5,135,030	10,351	1,714,892	7,811,413	61,852
Mississippi Chemical Corp., Yazoo City, Yazoo	14,465,277	0	0	0	0	0	1,687,005	16,152,282	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Mississippi Power Co. — Plant Watson, Gulfport, Harrison	0	0	0	0	0	0	6,937,525	6,937,525	0
R. D. Morrow Sr. Generating Plant, Purvis, Lamar	0	0	0	0	0	0	1,210,680	1,210,680	0
Entergy Gerald Andrus Plant, Greenville, Washington	0	0	0	0	0	0	1,188,019	1,188,019	2
Mississippi Power Co. — Plant Daniel, Escatawpa, Jackson	0	0	0	0	0	0	1,078,901	1,078,901	0
Entergy Baxter Wilson Generating Plant, Vicksburg, Warren	0	0	0	0	0	0	889,593	889,593	2
Amerada Hess Corp., Collins, Covington	0	0	0	0	0	0	8,875	8,875	0
Amerada Hess Corp. Purvis Terminal, Purvis, Lamar	0	2	0	0	0	4	8,079	8,085	0
Scott Petroleum Corp., Greenwood, Leflore	0	0	0	0	0	0	5,880	5,880	0
Ashland Distribution Co., Jackson, Hinds	0	0	0	60,083	0	188,090	4,607	252,780	0
Mobil Oil T&M Terminal, Collins, Covington	0	0	0	0	0	0	4,600	4,600	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

MISSOURI

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	52,561,552	79,872,551	132,434,103
Air Emissions	30,206,648	13,266,029	43,472,677
Surface Water Discharges	2,528,218	159,888	2,688,106
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	75,750	17,494	93,244
Other On-site Land Releases	19,750,936	66,429,140	86,180,076
Off-site Releases (Transfers Off-site to Disposal)*	4,405,048	5,883	4,410,931
Total On- and Off-site Releases	56,966,600	79,878,434	136,845,034
Recycled On-site	225,246,952	667,012	225,913,964
Recycled Off-site	55,448,281	1,253,629	56,701,910
Energy Recovery On-site	97,649,194	0	97,649,194
Energy Recovery Off-site	11,436,473	305,991	11,742,464
Treated On-site	63,212,942	7,883,000	71,095,942
Treated Off-site**	12,486,677	75,461	12,562,138
Quantity Released On- and Off-site***	56,525,357	79,376,991	135,902,348
Total Production-related Waste Managed	522,005,876	89,562,084	611,567,960
Total Non-production-related Waste Managed	64,217	39,894	104,111

Transfers Off-site for Further Waste Management/Disposal

Recycling	57,520,685	597,102	58,117,787
Energy Recovery	11,373,630	317,934	11,691,564
Treatment	8,599,615	99,811	8,699,426
Publicly Owned Treatment Works (POTWs)	4,185,829	3,914	4,189,743
Metals and Metal Compounds*	130,507	5	130,512
Non-metal TRI Chemicals**	4,055,322	3,909	4,059,231
Other Off-site Transfers****	18,160	0	18,160
Off-site Transfers to Disposal *(not including metals to POTWs)*	4,353,555	6,441	4,359,996
Total Transfers Off-site for Further Waste Management/Disposal	86,051,474	1,025,202	87,076,676

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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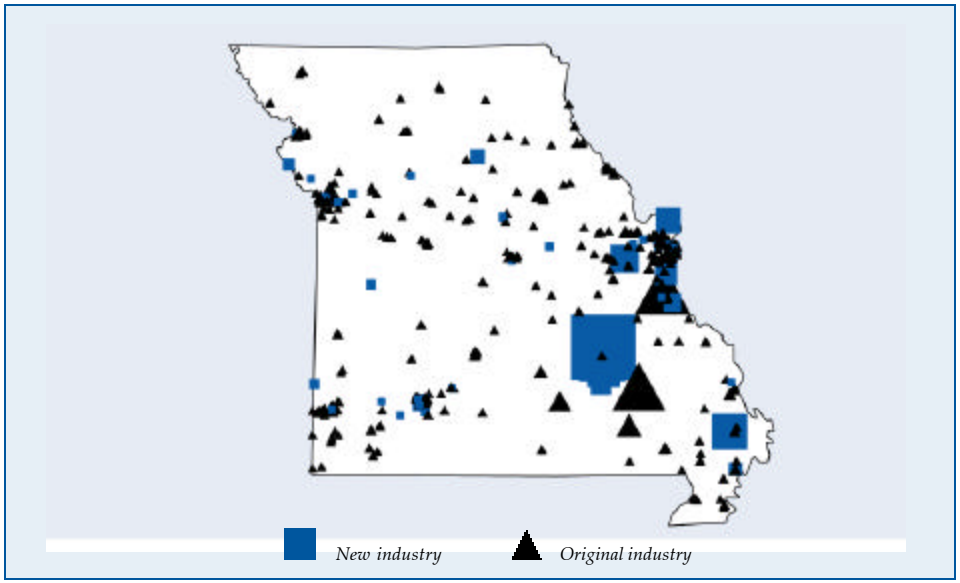

The largest marker in the state map represents the largest facility for on-site releases in the state of Missouri. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	5,438,559
Square Miles	68,898
Total Facilities	624
Total Forms	2,229
Form As	408

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	15	8	16
Pounds	56,966,600	79,878,434	136,845,034
National Rank for Total On-site Releases**			
Rank	15	7	14
Pounds	52,561,552	79,872,551	132,434,103
National Rank for Total Releases within State***			
Rank	15	8	16
Pounds	56,368,733	80,258,587	136,627,320
National Rank for Production-related Waste Managed			
Rank	17	16	18
Pounds	522,005,876	89,562,084	611,567,960

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

MISSOURI

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Zinc compounds	116,035	1,086	0	8,157,440	574,616	8,849,177	4,305	280,027	294,589
67-56-1	Methanol	8,672,211	10,134	0	5	641	8,682,991	1,534	0	641
7440-66-6	Zinc (fume or dust)	7,907	8	0	6,105,478	5,555	6,118,948	7,010	255	5,300
1330-20-7	Xylene (mixed isomers)	3,627,493	5	0	0	55,338	3,682,836	1,724	11,199	44,139
7439-92-1	Lead	71,650	300	0	2,751,135	13,208	2,836,293	623	10,434	2,774
—	Lead compounds	240,592	1,096	0	1,474,753	705,622	2,422,063	60,384	660,485	45,137
—	Nitrate compounds	607	2,010,526	0	899	48,002	2,060,034	0	0	48,002
—	Glycol ethers	1,877,703	5	0	5,400	37,648	1,920,756	755	4,285	33,363
7664-41-7	Ammonia	1,153,023	493,453	0	269,926	2,289	1,918,691	0	2,254	35
108-88-3	Toluene	1,651,142	32	0	11	2,763	1,653,948	2,266	1,000	1,763

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal * Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Lead compounds	135,997	7,805	0	25,647,940	563	25,792,305	1,337	0	563
—	Zinc compounds	58,071	29,850	0	24,985,867	318	25,074,106	4,480	15	303
—	Barium compounds	168,339	104,433	0	10,102,745	5	10,375,522	0	5	0
7647-01-0	Hydrochloric acid	9,098,595	0	0	0	0	9,098,595	0	0	0
—	Copper compounds	6,514	4,718	0	4,608,844	10	4,620,086	121	10	0
7664-39-3	Hydrogen fluoride	1,989,699	0	0	0	0	1,989,699	9	0	0
7664-93-9	Sulfuric acid	1,629,482	0	0	0	0	1,629,482	0	0	0
7440-39-3	Barium	14,819	0	0	396,811	0	411,630	91,125	0	0
—	Manganese compounds	7,240	5,030	0	329,000	10	341,280	31	10	0
—	Nickel compounds	3,197	4,396	0	151,702	0	159,295	5	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

MISSOURI

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Doe Run Co. Herculaneum Smelter, Herculaneum, Jefferson	271,716	247	0	0	0	9,567,146	9,839,109	997	35,432
Doe Run Co. Glover Smelter, Annapolis, Iron	43,533	27	0	0	0	9,306,607	9,350,167	0	328
Royal Oak Ent. Inc., Ellsinore Mo., Ellsinore, Carter	3,294,720	0	0	0	0	0	3,294,720	0	0
Craig Ind., Summersville, Shannon	2,753,280	0	0	0	0	0	2,753,280	0	0
Ford Motor Co., Kansas City Assembly Plant, Claycomo, Clay	2,327,243	0	0	0	0	0	2,327,243	40,960	18,065
Ford Motor Co. St. Louis Assembly, Hazelwood, St Louis	1,518,402	0	0	0	0	0	1,518,402	1,200	20,969
Dow Chemical Co. Riverside Site, Pevely, Jefferson	1,406,901	0	0	0	0	0	1,406,901	0	0
ICI Explosives USA Inc., Joplin, Jasper	425,110	595,700	0	0	0	255	1,021,065	0	13,000
Missouri Chemical Works, Louisiana, Pike	976,854	0	0	0	0	0	976,854	0	0
Dyno Nobel Inc. Lomo Plant, Louisiana, Pike	194,700	762,000	0	0	0	0	956,700	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Viburnum Mines/Mill, Viburnum, Iron	57,045	11,700	0	0	0	15,487,593	15,556,338	0	0
Buick Mine/Mill, Boss, Iron	41,427	9,498	0	0	0	10,383,782	10,434,707	0	0
Sikeston Power Station, Sikeston, Scott	340,982	0	0	0	0	7,036,958	7,377,940	0	0
Westfork Mine/Mill, Bunker, Reynolds	924	1,250	0	0	0	6,806,016	6,808,190	0	0
Fletcher Mine/Mill, Bunker, Reynolds	23,698	1,750	0	0	0	6,321,354	6,346,802	0	0
Labadie Power Station, Labadie, Franklin	1,966,147	39,607	0	0	0	3,449,000	5,454,754	0	0
Sioux Power Plant, West Alton, St Charles	3,351,324	9,035	0	0	0	1,314,000	4,674,359	0	0
Brushy Creek Mine/Mill, Bunker, Reynolds	12,799	4,548	0	0	0	4,459,079	4,476,426	0	0
Meramec Plant, Saint Louis, St Louis	3,535,486	11,490	0	0	0	346,000	3,892,976	0	0
Sweetwater Mine/Mill, Ellington, Reynolds	3,777	915	0	0	0	3,654,708	3,659,400	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

MISSOURI

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Doe Run Co. Herculaneum Smelter, Herculaneum, Jefferson	40,901,194	0	0	0	0	0	9,849,759	50,750,953	25,985
Doe Run Co. Glover Smelter, Annapolis, Iron	58,598,682	3	0	0	5,905	328	9,350,167	67,955,085	0
Royal Oak Ent. Inc., Ellsinore Mo., Ellsinore, Carter	0	0	0	0	0	0	3,294,720	3,294,720	1
Craig Ind., Summersville, Shannon	0	0	0	0	0	0	2,753,280	2,753,280	1
Ford Motor Co., Kansas City Assembly Plant, Claycomo, Clay	0	1,012,790	0	234,790	857,900	72,690	2,417,639	4,595,809	0
Ford Motor Co. St. Louis Assembly, Hazelwood, St Louis	0	1,052,402	0	0	145,826	36,311	1,538,675	2,773,214	0
Dow Chemical Co. Riverside Site, Pevely, Jefferson	0	0	0	31,700	0	0	1,416,901	1,448,601	0
ICI Explosives USA Inc., Joplin, Jasper	17,100,000	0	0	0	0	197,100	1,015,002	18,312,102	0
Missouri Chemical Works, Louisiana, Pike	0	11,000	359,500	0	3,950,000	1,000	976,861	5,298,361	610
Dyno Nobel Inc. Lomo Plant, Louisiana, Pike	477,400	8,600	0	0	320,000	0	958,000	1,764,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Viburnum Mines/Mill, Viburnum, Iron	0	0	0	0	0	0	15,556,423	15,556,423	0
Buick Mine/Mill, Boss, Iron	0	0	0	0	0	0	10,434,678	10,434,678	0
Sikeston Power Station, Sikeston, Scott	0	0	0	0	0	0	7,377,942	7,377,942	0
Westfork Mine/Mill, Bunker, Reynolds	0	0	0	0	0	0	6,808,171	6,808,171	0
Fletcher Mine/Mill, Bunker, Reynolds	0	0	0	0	0	0	6,345,938	6,345,938	0
Labadie Power Station, Labadie, Franklin	0	0	0	0	2,160,000	0	5,415,000	7,575,000	0
Sioux Power Plant, West Alton, St Charles	0	0	0	0	892,000	0	4,669,000	5,561,000	0
Brushy Creek Mine/Mill, Bunker, Reynolds	0	0	0	0	0	0	4,476,016	4,476,016	0
Meramec Plant, Saint Louis, St Louis	0	0	0	0	512,000	0	3,890,000	4,402,000	0
Sweetwater Mine/Mill, Ellington, Reynolds	0	0	0	0	0	0	3,659,237	3,659,237	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

MONTANA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	46,531,157	76,229,899	122,761,056
Air Emissions	4,190,212	1,119,321	5,309,533
Surface Water Discharges	94,176	10	94,186
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	2,298	0	2,298
Other On-site Land Releases	42,244,471	75,110,568	117,355,039
Off-site Releases (Transfers Off-site to Disposal)*	600,495	159,400	759,895
Total On- and Off-site Releases	47,131,652	76,389,299	123,520,951
Recycled On-site	33,461,138	0	33,461,138
Recycled Off-site	161,043	39,000	200,043
Energy Recovery On-site	2,736,683	0	2,736,683
Energy Recovery Off-site	54,685	0	54,685
Treated On-site	8,727,209	4,519,667	13,246,876
Treated Off-site**	29,422	45,566	74,988
Quantity Released On- and Off-site***	51,408,605	76,780,785	128,189,390
Total Production-related Waste Managed	96,578,785	81,385,018	177,963,803
Total Non-production-related Waste Managed	74,742	13	74,755

Transfers Off-site for Further Waste Management/Disposal

Recycling	46,501	0	46,501
Energy Recovery	56,503	1,000	57,503
Treatment	14,995	45,338	60,333
Publicly Owned Treatment Works (POTWs)	16,101	0	16,101
Metals and Metal Compounds*	255	0	255
Non-metal TRI Chemicals**	15,846	0	15,846
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	4,845,970	159,400	5,005,370
Total Transfers Off-site for Further Waste Management/Disposal	4,980,070	205,738	5,185,808

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*

*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*

**** *Transfers reported without a valid waste management code.*

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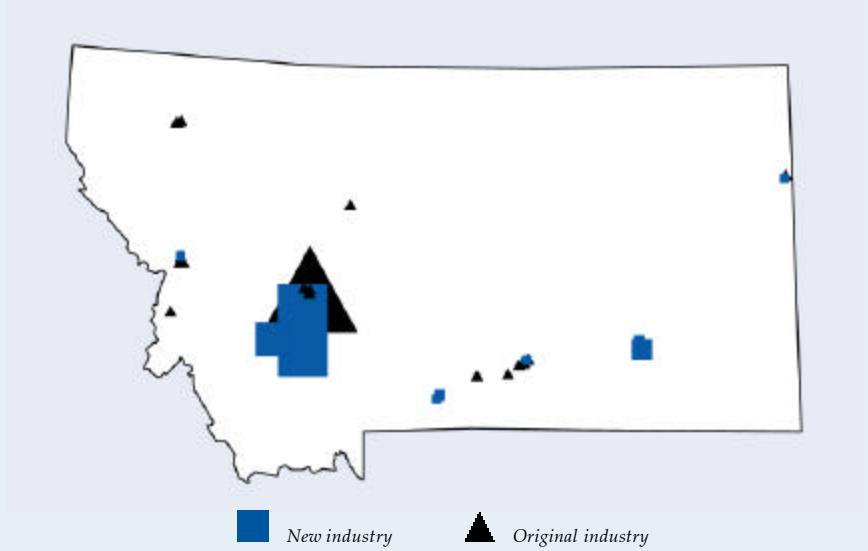

The largest marker in the state map represents the largest facility for on-site releases in the state of Montana. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	880,453
Square Miles	145,556
Total Facilities	42
Total Forms	254
Form As	25

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	19	11	18
Pounds	47,131,652	76,389,299	123,520,951
National Rank for Total On-site Releases**			
Rank	19	9	17
Pounds	46,531,157	76,229,899	122,761,056
National Rank for Total Releases within State***			
Rank	19	11	18
Pounds	46,539,752	76,389,299	122,929,051
National Rank for Production-related Waste Managed			
Rank	36	19	36
Pounds	96,578,785	81,385,018	177,963,803

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*

*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

MONTANA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Zinc compounds	22,905	53	0	32,948,399	1,207,590	34,178,947	0	5	1,207,585
—	Lead compounds	33,708	19	0	4,086,785	2,085,485	6,205,997	0	0	2,085,485
—	Manganese compounds	1,004	387	0	2,631,464	21,752	2,654,607	0	0	21,752
67-56-1	Methanol	1,969,578	74,000	0	140	0	2,043,718	0	0	0
—	Copper compounds	14,188	2	0	1,734,359	53,632	1,802,181	0	250	53,382
—	Cadmium compounds	6,162	1	0	25,262	1,327,630	1,359,055	0	0	1,327,630
7664-41-7	Ammonia	565,466	12,160	0	11,705	0	589,331	0	0	0
—	Arsenic compounds	13,654	61	0	434,598	120,995	569,308	0	0	120,995
50-00-0	Formaldehyde	377,792	660	0	0	0	378,452	0	0	0
—	Antimony compounds	556	1,102	0	299,030	11,865	312,553	0	0	11,865

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Zinc compounds	4,340	0	0	20,605,050	0	20,609,390	0	0	0
7440-50-8	Copper	1,502	0	0	14,106,806	0	14,108,308	0	0	0
—	Copper compounds	2,485	0	0	11,526,200	0	11,528,685	0	0	0
7440-47-3	Chromium	734	0	0	9,425,900	0	9,426,634	0	0	0
—	Lead compounds	1,760	0	0	8,455,000	0	8,456,760	0	0	0
—	Barium compounds	77,750	5	0	3,800,000	0	3,877,755	0	0	0
7440-02-0	Nickel	986	0	0	2,689,177	0	2,690,163	0	0	0
—	Manganese compounds	7,200	5	0	1,800,000	0	1,807,205	0	0	0
—	Arsenic compounds	260	0	0	731,000	0	731,260	0	0	0
7647-01-0	Hydrochloric acid	592,326	0	0	0	0	592,326	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

MONTANA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)†

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
ASARCO Inc., East Helena, Lewis and Clark	105,525	1,612	0	0	0	42,082,959	42,190,096	0	4,816,020
Smurfit-Stone Container Corp., Missoula, Missoula	1,993,585	79,770	0	0	0	155	2,073,510	0	0
Plum Creek Mfg. L.P. MDF Facility, Columbia Falls, Flathead	666,150	0	0	0	0	0	666,150	0	0
Columbia Falls Aluminum Co. L.L.C., Columbia Falls, Flathead	309,178	0	0	0	0	1,320	310,498	0	0
Holly Sugar Corp. Sidney Factory, Sidney, Richland	201,600	0	0	0	0	8,400	210,000	0	0
Louisiana-Pacific Corp., Missoula, Missoula	194,329	0	0	0	0	0	194,329	0	0
Exxon Billings Refy., Billings, Yellowstone	172,118	9,262	0	0	0	440	181,820	0	14,128
Cenex Harvest States Co-Op. Laurel Refy., Laurel, Yellowstone	108,820	285	0	0	0	45	109,150	40	0
Conoco Inc. Billings Refy., Billings, Yellowstone	102,222	447	0	0	0	0	102,669	0	0
Montana Refining Co., Great Falls, Cascade	87,444	0	0	0	0	0	87,444	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.
†*One facility reported a total of 168,440 pounds of on-site releases. The facility has since revised this quantity to 39,900 pounds. This removes the facility from the top ranked facilities in the state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Montana Tunnels Mining Inc., Jefferson City, Jefferson	18,175	0	0	0	0	25,937,000	25,955,175	0	0
Golden Sunlight Mines Inc., Whitehall, Jefferson	122,909	0	0	0	0	25,668,000	25,790,909	0	0
Montana Resources, Butte, Silver Bow	755	0	0	0	0	15,629,750	15,630,505	0	0
Montana Power Co. Colstrip Project Div., Colstrip, Rosebud	307,865	0	0	0	0	6,579,350	6,887,215	0	0
SMC Nye Mine Site, Nye, Stillwater	1,333	0	0	0	0	1,017,527	1,018,860	0	0
Rosebud Power Plant, Colstrip, Rosebud	597,981	0	0	0	0	211,361	809,342	0	0
Lewis & Clark Station, Sidney, Richland	5,959	0	0	0	0	39,400	45,359	159,400	0
Montana Power Co. Corette Thermal Plant, Billings, Yellowstone	38,850	10	0	0	0	0	38,860	0	0
Stillwater Mining Co., East Boulder Project, Big Timber, Sweet Grass	1	0	0	0	0	28,180	28,181	0	0
Conoco Helena Product Terminal, Helena, Lewis and Clark	13,958	0	0	0	0	0	13,958	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

MONTANA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)†

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
ASARCO Inc., East Helena, Lewis and Clark	26,485,765	0	0	0	0	0	46,932,026	73,417,791	74,054
Smurfit-Stone Container Corp., Missoula, Missoula	0	0	2,373,600	0	4,445,580	158	2,119,858	8,939,196	0
Plum Creek Mfg. L.P. MDF Facility, Columbia Falls, Flathead	0	0	0	0	0	0	664,900	664,900	0
Columbia Falls Aluminum Co. L.L.C., Columbia Falls, Flathead	6,143,744	0	0	0	0	214	310,498	6,454,456	0
Holly Sugar Corp. Sidney Factory, Sidney, Richland	0	0	0	0	0	0	210,000	210,000	0
Exxon Billings Refy., Billings, Yellowstone	0	0	160,000	0	2,580,176	512	196,805	2,937,493	169
Louisiana-Pacific Corp., Missoula, Missoula	0	0	0	6,974	0	0	194,923	201,897	0
Cenex Harvest States Co-Op. Laurel Refy., Laurel, Yellowstone	48,931	0	0	687	1,616,463	737	108,507	1,775,325	402
Conoco Inc. Billings Refy., Billings, Yellowstone	0	293	0	24	81,690	0	100,610	182,617	0
Montana Refining Co., Great Falls, Cascade	190,500	0	0	0	0	14,394	88,279	293,173	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*
†One facility reported a total of 417,816 pounds of production-related waste. The facility has since revised this quantity to 71,400 pounds. This removes the facility from the top ranked facilities in the state.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Montana Tunnels Mining Inc., Jefferson City, Jefferson	0	39,000	0	0	0	0	25,951,000	25,990,000	8
Golden Sunlight Mines Inc., Whitehall, Jefferson	0	0	0	0	0	0	25,721,000	25,721,000	5
Montana Resources, Butte, Silver Bow	0	0	0	0	0	0	17,136,200	17,136,200	0
Montana Power Co. Colstrip Project Div., Colstrip, Rosebud	0	0	0	0	3,120,000	0	6,900,720	10,020,720	0
Rosebud Power Plant, Colstrip, Rosebud	0	0	0	0	32,960	0	809,342	842,302	0
Lewis & Clark Station, Sidney, Richland	0	0	0	0	235,000	0	199,900	434,900	0
Montana Power Co. Corette Thermal Plant, Billings, Yellowstone	0	0	0	0	86,000	0	38,630	124,630	0
Conoco Helena Product Terminal, Helena, Lewis and Clark	0	0	0	0	0	14,576	12,631	27,207	0
Conoco Missoula Product Terminal, Missoula, Missoula	0	0	0	0	0	30,990	8,121	39,111	0
HCI Dyce Chemical Inc., Billings, Yellowstone	0	0	0	0	0	0	1,907	1,907	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

NEBRASKA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	9,401,560	8,003,053	17,404,613
Air Emissions	6,338,728	4,102,292	10,441,020
Surface Water Discharges	2,487,238	120,760	2,607,998
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	3	0	3
Other On-site Land Releases	575,591	3,780,001	4,355,592
Off-site Releases (Transfers Off-site to Disposal)*	3,684,767	192,384	3,877,151
Total On- and Off-site Releases	13,086,327	8,195,437	21,281,764
Recycled On-site	1,660,358	70,732	1,731,090
Recycled Off-site	26,345,794	65,559	26,411,353
Energy Recovery On-site	534,716	0	534,716
Energy Recovery Off-site	476,364	84,564	560,928
Treated On-site	11,072,700	10,098,136	21,170,836
Treated Off-site**	4,544,108	55,384	4,599,492
Quantity Released On- and Off-site***	20,480,915	8,210,533	28,691,448
Total Production-related Waste Managed	65,114,955	18,584,908	83,699,863
Total Non-production-related Waste Managed	10,296	20,000	30,296

Transfers Off-site for Further Waste Management/Disposal

Recycling	23,998,104	65,559	24,063,663
Energy Recovery	500,054	81,674	581,728
Treatment	185,736	54,240	239,976
Publicly Owned Treatment Works (POTWs)	605,460	2,500	607,960
Metals and Metal Compounds*	12,962	0	12,962
Non-metal TRI Chemicals**	592,498	2,500	594,998
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	6,772,459	192,466	6,964,925
Total Transfers Off-site for Further Waste Management/Disposal	32,061,813	396,439	32,458,252

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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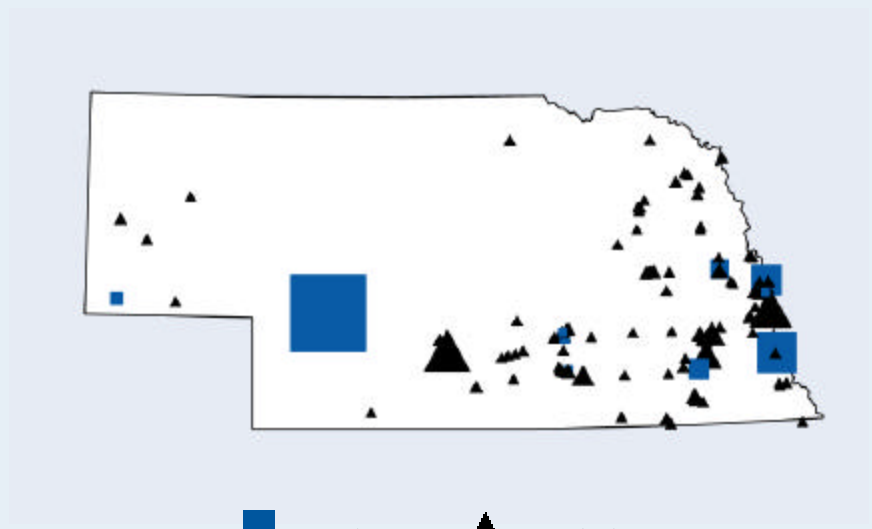

The largest marker in the state map represents the largest facility for on-site releases in the state of Nebraska. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	1,662,719
Square Miles	76,878
Total Facilities	173
Total Forms	602
Form As	102

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	36	41	42
Pounds	13,086,327	8,195,437	21,281,764
National Rank for Total On-site Releases**			
Rank	37	41	41
Pounds	9,401,560	8,003,053	17,404,613
National Rank for Total Releases within State***			
Rank	35	41	42
Pounds	13,620,123	8,179,359	21,799,482
National Rank for Production-related Waste Managed			
Rank	39	38	43
Pounds	65,114,955	18,584,908	83,699,863

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

NEBRASKA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Zinc compounds	145,475	12,991	0	0	4,850,132	5,008,598	291	2,439,597	2,410,535
—	Nitrate compounds	0	2,426,905	0	4,400	139,480	2,570,785	0	139,480	0
7664-41-7	Ammonia	1,211,310	37,340	0	511,299	105,020	1,864,969	250	88,442	16,578
110-54-3	n-Hexane	1,051,283	0	0	0	0	1,051,283	0	0	0
1330-20-7	Xylene (mixed isomers)	863,420	10	0	0	441	863,871	1	433	8
—	Manganese compounds	21,139	250	0	16,600	698,594	736,583	317,861	323,884	374,710
108-88-3	Toluene	677,298	5	0	0	481	677,784	0	471	10
95-63-6	1,2,4-Trimethylbenzene	386,992	5	0	0	0	386,997	0	0	0
—	Lead compounds	2,936	286	0	0	339,131	342,353	347	164,047	175,084
1717-00-6	1,1-Dichloro-1-fluoroethane (HCFC-141b)	269,554	0	0	0	0	269,554	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	2,609,501	0	0	0	0	2,609,501	0	0	0
—	Barium compounds	171,505	250	0	1,912,835	116,500	2,201,090	0	116,500	0
7664-39-3	Hydrogen fluoride	1,159,039	0	0	0	0	1,159,039	0	0	0
7440-39-3	Barium	241	0	0	1,154,992	0	1,155,233	0	0	0
7782-50-5	Chlorine	16,300	120,000	0	120,000	0	256,300	0	0	0
—	Copper compounds	6,305	5	0	138,322	19,300	163,932	0	19,050	250
—	Zinc compounds	5,055	250	0	124,413	29,650	159,368	13,076	29,650	0
—	Manganese compounds	12,945	0	0	139,505	0	152,450	250	0	0
7664-41-7	Ammonia	47,000	0	0	16,000	0	63,000	0	0	0
—	Nickel compounds	1,300	0	0	44,294	5	45,599	14,238	0	5

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

NEBRASKA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							On-site Releases	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
IBP Inc., Lexington, Dawson	33,530	1,500,750	0	0	0	6,800	1,541,080	6,400	0
PCS Nitrogen Fertilizer L.P., Bellevue, Sarpy	546,505	840,250	0	0	0	4,255	1,391,010	0	5
Goodyear Tire & Rubber Co., Lincoln, Lancaster	881,458	195	0	0	0	0	881,653	74,757	681
ADM, Lincoln, Lancaster	690,001	250	0	0	0	0	690,251	753	1,200
U.S.D.A. Agricultural Research Service Rlhusmarc, Clay Center, Clay	0	0	0	0	0	499,530	499,530	0	0
New Holland N.A. Inc., Grand Island, Hall	300,000	0	0	0	0	0	300,000	0	0
Farmland Industries,Inc., Beatrice, Gage	208,370	48,825	0	0	0	700	257,895	0	0
Archer Daniels Midland, Fremont, Dodge	255,010	0	0	0	0	0	255,010	0	0
Crown Beverage Packaging, Omaha, Douglas	243,320	0	0	0	0	0	243,320	0	0
Agrium US Inc., Homestead Nitrogen Ops., Beatrice, Gage	168,440	53,349	0	0	0	0	221,789	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							On-site Releases	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases * Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Nebraska Public Power District. Gerald Gentleman Station, Sutherland, Lincoln	1,583,200	120,000	0	0	0	2,012,000	3,715,200	0	0
Omaha Public Power District Nebraska City Station, Nebraska City, Otoe	820,490	250	0	0	0	877,000	1,697,740	0	0
Omaha Public Power District North Omaha Station, Omaha, Douglas	804,790	5	0	0	0	381,300	1,186,095	0	0
Nebraska Public Power District — Sheldon Station, Hallam, Lancaster	387,760	0	0	0	0	219,500	607,260	0	0
City of Fremont Department of Utilities Lon D. Wright Power, Fremont, Dodge	423,600	505	0	0	0	116,505	540,610	165,200	0
Clean Harbors Environmental Services Inc., Kimball, Kimball	16,001	0	0	0	0	168,694	184,695	0	25,106
Platte Generating Station, Grand Island, Hall	43,135	0	0	0	0	10	43,145	0	0
Whelan Energy Center, Hastings, Adams	23,280	0	0	0	0	4,992	28,272	0	0
Van Waters & Rogers Inc., Omaha, Douglas	34	0	0	0	0	0	34	0	2,160
Safety-Kleen Sys. (506501), Grand Island, Hall	2	0	0	0	0	0	2	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

NEBRASKA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Nucor Steel, Nebraska, Norfolk, Madison	0	2,156,862	0	0	76	3,542,468	10,006,044	15,705,450	0
IBP Inc., Lexington, Dawson	0	37,000	0	0	689,000	2,200	1,547,040	2,275,240	0
PCS Nitrogen Fertilizer L.P., Bellevue, Sarpy	150,000	0	0	0	2,629,000	0	1,386,131	4,165,131	5,576
Goodyear Tire & Rubber Co., Lincoln, Lancaster	24,432	0	1,258	83,002	0	5,124	957,092	1,070,908	0
ADM, Lincoln, Lancaster	0	33,000	0	0	160,000	840	691,954	885,794	0
U.S.D.A. Agricultural Research Service Rlhusmarc, Clay Center, Clay	0	0	0	0	0	0	499,530	499,530	0
New Holland N.A. Inc., Grand Island, Hall	0	0	0	4,200	0	0	300,000	304,200	0
Behlen Mfg. Co., Columbus, Platte	0	194,000	0	26,000	0	0	281,500	501,500	0
Farmland Industries,Inc., Beatrice, Gage	750,810	10,565	11,200	0	94,000	0	258,080	1,124,655	785
Archer Daniels Midland, Fremont, Dodge	0	0	0	0	0	700	255,010	255,710	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Nebraska Public Power District. Gerald Gentleman Station, Sutherland, Lincoln	64,720	0	0	0	0	0	3,656,000	3,720,720	20,000
Omaha Public Power District Nebraska City Station, Nebraska City, Otoe	0	0	0	0	0	0	1,697,000	1,697,000	0
Omaha Public Power District North Omaha Station, Omaha, Douglas	0	0	0	0	0	0	1,186,300	1,186,300	0
City of Fremont Department of Utilities Lon D. Wright Power, Fremont, Dodge	0	0	0	0	0	0	701,000	701,000	0
Nebraska Public Power District — Sheldon Station, Hallam, Lancaster	1,020	0	0	0	0	0	612,000	613,020	0
Clean Harbors Environmental Services Inc., Kimball, Kimball	0	0	0	84,564	10,095,636	53,224	291,762	10,525,186	0
Platte Generating Station, Grand Island, Hall	0	0	0	0	0	0	43,155	43,155	0
Whelan Energy Center, Hastings, Adams	4,992	0	0	0	0	0	23,280	28,272	0
Van Waters & Rogers Inc., Omaha, Douglas	0	0	0	0	2,500	2,160	34	4,694	0
Safety-Kleen Sys. (506501), Grand Island, Hall	0	65,559	0	0	0	0	2	65,561	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

1998 Toxics Release Inventory

NEVADA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	4,171,991	1,267,438,472	1,271,610,463
Air Emissions	1,750,522	2,665,020	4,415,542
Surface Water Discharges	0	236,050	236,050
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	1,404	1,404
On-site Land Releases to RCRA Subtitle C Landfills	0	1,321,200	1,321,200
Other On-site Land Releases	2,421,469	1,263,214,798	1,265,636,267
Off-site Releases (Transfers Off-site to Disposal)*	32,854	79,357	112,211
Total On- and Off-site Releases	4,204,845	1,267,517,829	1,271,722,674
Recycled On-site	2,362,845	8,218,451	10,581,296
Recycled Off-site	1,534,498	1,345,874	2,880,372
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	48,834	0	48,834
Treated On-site	18,800,024	15,382,591	34,182,615
Treated Off-site**	74,576	427,608	502,184
Quantity Released On- and Off-site***	4,199,511	1,315,204,324	1,319,403,835
Total Production-related Waste Managed	27,020,288	1,340,578,848	1,367,599,136
Total Non-production-related Waste Managed	1,178	36	1,214

Transfers Off-site for Further Waste Management/Disposal

Recycling	1,533,673	1,216,223	2,749,896
Energy Recovery	26,125	0	26,125
Treatment	15,863	240,124	255,987
Publicly Owned Treatment Works (POTWs)	45,012	500	45,512
Metals and Metal Compounds*	2	0	2
Non-metal TRI Chemicals**	45,010	500	45,510
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	32,852	309,415	342,267
Total Transfers Off-site for Further Waste Management/Disposal	1,653,525	1,766,262	3,419,787

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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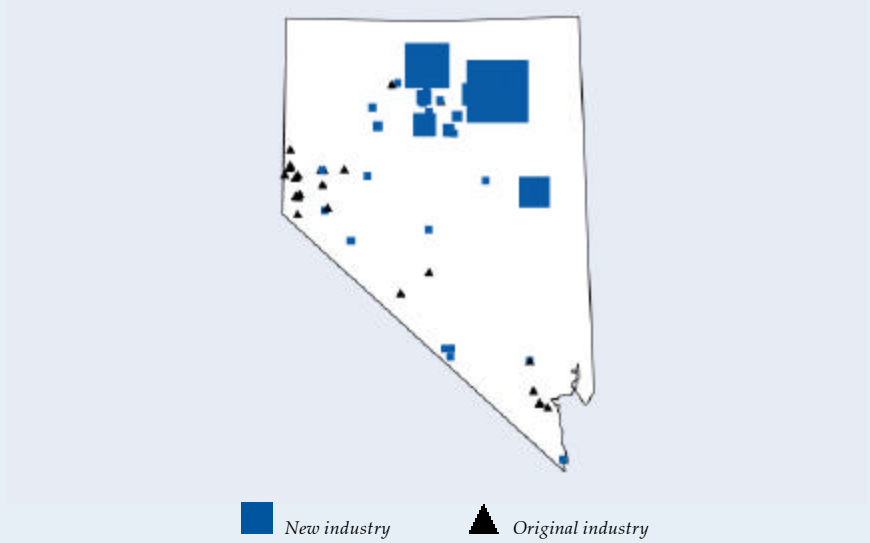
Alene Coulson
(775) 687-4670, ext. 3006
Fax: (775) 687-6396

EPA Regional Contact:
Adam Browning
(415) 744-1121
Fax: (415) 744-1073

To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Nevada. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	1,746,898
Square Miles	109,806
Total Facilities	95
Total Forms	437
Form As	32

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	44	1	1
Pounds	4,204,845	1,267,517,829	1,271,722,674
National Rank for Total On-site Releases**			
Rank	43	1	1
Pounds	4,171,991	1,267,438,472	1,271,610,463
National Rank for Total Releases within State***			
Rank	39	1	1
Pounds	8,202,802	1,267,607,666	1,275,810,468
National Rank for Production-related Waste Managed			
Rank	45	1	4
Pounds	27,020,288	1,340,578,848	1,367,599,136

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

NEVADA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Manganese compounds	13,018	0	0	2,418,745	0	2,431,763	71,393	0	0
108-88-3	Toluene	583,111	0	0	0	0	583,111	0	0	0
100-42-5	Styrene	441,298	0	0	0	0	441,298	0	0	0
7664-41-7	Ammonia	402,598	0	0	0	0	402,598	0	0	0
1717-00-6	1,1-Dichloro-1-fluo-roethane (HCFC-141b)	55,960	0	0	0	2,989	58,949	0	2,989	0
7697-37-2	Nitric acid	56,812	0	0	0	0	56,812	150	0	0
1330-20-7	Xylene (mixed isomers)	42,290	0	0	0	750	43,040	0	0	750
7647-01-0	Hydrochloric acid	38,540	0	0	0	0	38,540	0	0	0
7550-45-0	Titanium tetrachloride	15,700	0	0	0	0	15,700	0	0	0
78-93-3	Methyl ethyl ketone	14,704	0	0	0	0	14,704	14,000	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Arsenic compounds	39,206	5,030	75	452,963,490	6	453,007,807	0	0	6
—	Zinc compounds	30,342	1,606	46	183,894,813	68,432	183,995,239	5	27,004	60,039
—	Manganese compounds	14,497	2,012	0	178,257,097	4,121	178,277,727	0	4,100	21
7440-50-8	Copper	6,400	0	0	169,306,872	0	169,313,272	5,100	0	0
7440-38-2	Arsenic	32,007	705	0	63,070,323	0	63,103,035	0	0	0
—	Lead compounds	6,985	632	1	49,232,954	19,916	49,260,488	12,670	3,400	16,618
—	Copper compounds	12,820	62,961	3	46,112,718	34,297	46,222,799	40,000	17,047	34,297
—	Nickel compounds	8,772	2,701	8	30,138,156	47,310	30,196,947	530	20,464	40,927
—	Chromium compounds	2,006	1	0	27,039,511	44,572	27,086,090	44,181	19,393	26,849
—	Antimony compounds	553	5,865	62	16,965,692	0	16,972,172	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

NEVADA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Kerr McGee Chemical L.L.C., Henderson, Clark	25,591	0	0	0	0	2,288,740	2,314,331	0	0
R.R. Donnelley & Sons Co.130130, Reno, Washoe	557,300	0	0	0	0	0	557,300	1	270
Tomkins Ind. Inc. Lasco Bathware Div., Moapa, Clark	436,630	0	0	0	0	0	436,630	0	0
Coastal Chem Inc., Battle Mountain, Lander	383,400	0	0	0	0	1,126	384,526	0	0
Nevada Refy. of Kennametal Inc., Fallon, Churchill	0	0	0	0	0	130,005	130,005	0	0
Titanium Metals Corp., Henderson, Clark	128,424	0	0	0	0	0	128,424	0	0
H.C. Inds. (NV) Inc., Fernley, Lyon	47,854	0	0	0	0	0	47,854	2,788	0
O'Sullivan Plastics Corp., Yerington, Lyon	27,988	0	0	0	0	0	27,988	0	0
Quebecor Printing Nevada Inc., Fernley, Lyon	23,272	0	0	0	0	0	23,272	0	0
Foreland Refining Corp. — Tonopah Refy., Tonopah, Nye	19,615	0	0	0	0	0	19,615	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Barrick Goldstrike Mine, Elko, Elko	94,450	49,812	0	0	0	397,909,683	398,053,945	0	375
Newmont Gold Company, Twin Creeks Mine, Golconda, Humboldt	108,106	2,615	0	0	0	269,560,113	269,670,834	0	2
BHP Copper Robinson Ops., Ruth, White Pine	2,895	0	0	0	0	167,733,163	167,736,058	0	0
Echo Bay Minerals Co. — McCoy/Cove Mine, Battle Mountain, Lander	44,940	0	0	0	0	111,975,239	112,020,179	0	0
Newmont Gold Co. Carlin South Area, Carlin, Eureka	173,883	7,088	0	0	0	107,130,445	107,311,416	0	1
Newmont Gold Co. — Lone Tree Mine, Valmy, Humboldt	53,069	113,750	0	0	0	53,660,265	53,827,084	0	0
Getchell Gold Corp., Golconda, Humboldt	57,485	783	0	0	0	44,402,181	44,460,449	0	9,410
Cortez Gold Mines, Pipeline Mine, Mill #2, Beowawe, Lander	161,994	0	0	0	0	36,021,100	36,183,094	0	0
Newmont Gold Co. — Carlin North Area, Carlin, Eureka	33,271	0	0	0	0	24,782,461	24,815,732	0	0
Coeur Rochester Inc., Lovelock, Pershing	16,770	0	0	0	0	19,083,351	19,100,121	0	2

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

NEVADA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Kerr Mcgee Chemical L.L.C., Henderson, Clark	0	0	0	0	0	0	2,314,155	2,314,155	0
R.R. Donnelley & Sons Co.130130, Reno, Washoe	0	12,180	0	41,100	6,750	311	535,300	595,641	0
Tomkins Ind. Inc. Lasco Bathware Div., Moapa, Clark	0	0	0	0	0	0	436,631	436,631	50
Coastal Chem Inc., Battle Mountain, Lander	0	0	0	0	0	0	383,000	383,000	1,126
Nevada Refy. of Kennametal Inc., Fallon, Churchill	0	0	0	0	0	0	130,000	130,000	0
Titanium Metals Corp., Henderson, Clark	0	0	0	0	10,344,256	0	128,424	10,472,680	0
H.C. Inds. (NV) Inc., Fernley, Lyon	0	0	0	0	400	0	50,642	51,042	0
O'Sullivan Plastics Corp., Yerington, Lyon	41,600	0	0	3,610	0	0	28,486	73,696	0
Quebecor Printing Nevada Inc., Fernley, Lyon	575,309	0	0	0	0	0	23,272	598,581	0
Michelin N.A. Inc., Reno, Washoe	0	20,700	0	0	0	0	21,050	41,750	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Barrick Goldstrike Mine, Elko, Elko	2,277,389	1,500	0	0	1,181,720	599	426,878,615	430,339,823	0
Newmont Gold Company, Twin Creeks Mine, Golconda, Humboldt	937,991	557	0	0	1,494,000	0	289,770,836	292,203,384	0
BHP Copper Robinson Ops., Ruth, White Pine	0	0	0	0	201,823	0	167,349,313	167,551,136	0
Echo Bay Minerals Co. — McCoy/Cove Mine, Battle Mountain, Lander	0	0	0	0	2,003,800	0	112,020,269	114,024,069	14
Newmont Gold Co. Carlin South Area, Carlin, Eureka	3,531,662	450	0	0	3,337,270	0	107,311,417	114,180,799	0
Newmont Gold Co. — Lone Tree Mine, Valmy, Humboldt	876,260	0	0	0	577,306	6,600	53,827,085	55,287,251	0
Getchell Gold Corp., Golconda, Humboldt	187	0	0	0	1,179,381	0	44,460,499	45,640,067	0
Cortez Gold Mines, Pipeline Mine, Mill #2, Beowawe, Lander	2,700	2,300	0	0	1,231,000	0	36,180,200	37,416,200	0
Newmont Gold Co. — Carlin North Area, Carlin, Eureka	325,060	0	0	0	280,000	0	24,815,732	25,420,792	0
Coeur Rochester Inc., Lovelock, Pershing	12	18	0	0	0	0	19,091,857	19,091,887	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

NEW HAMPSHIRE

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	2,508,228	4,048,383	6,556,611
Air Emissions	2,298,511	4,026,683	6,325,194
Surface Water Discharges	127,630	0	127,630
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	82,087	21,700	103,787
Off-site Releases (Transfers Off-site to Disposal) *	454,521	49,870	504,391
Total On- and Off-site Releases	2,962,749	4,098,253	7,061,002
Recycled On-site	19,759,819	0	19,759,819
Recycled Off-site	14,636,857	30	14,636,887
Energy Recovery On-site	1,291,862	0	1,291,862
Energy Recovery Off-site	2,310,099	0	2,310,099
Treated On-site	12,528,800	110	12,528,910
Treated Off-site**	826,675	18	826,693
Quantity Released On- and Off-site***	2,610,514	4,114,714	6,725,228
Total Production-related Waste Managed	53,964,626	4,114,872	58,079,498
Total Non-production-related Waste Managed	6,661	0	6,661

Transfers Off-site for Further Waste Management/Disposal

Recycling	13,943,068	16,015	13,959,083
Energy Recovery	2,326,584	0	2,326,584
Treatment	326,795	0	326,795
Publicly Owned Treatment Works (POTWs)	361,606	18	361,624
Metals and Metal Compounds*	3,787	0	3,787
Non-metal TRI Chemicals**	357,819	18	357,837
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	458,912	49,870	508,782
Total Transfers Off-site for Further Waste Management/Disposal	17,416,965	65,903	17,482,868

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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New industry *Original industry*

The largest marker in the state map represents the largest facility for on-site releases in the state of New Hampshire. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	1,185,048
Square Miles	8,969
Total Facilities	111
Total Forms	330
Form As	52

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases *			
Rank	46	45	48
Pounds	2,962,749	4,098,253	7,061,002
National Rank for Total On-site Releases **			
Rank	46	45	48
Pounds	2,508,228	4,048,383	6,556,611
National Rank for Total Releases within State* **			
Rank	46	46	48
Pounds	2,972,727	4,061,973	7,034,700
National Rank for Production-related Waste Managed			
Rank	42	46	45
Pounds	53,964,626	4,114,872	58,079,498

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

NEW HAMPSHIRE

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
67-56-1	Methanol	573,725	2,424	0	4,282	1,068	581,499	0	0	1,068
1330-20-7	Xylene (mixed isomers)	299,542	5	0	0	5,562	305,109	752	0	5,562
7647-01-0	Hydrochloric acid	150,000	0	0	0	113,600	263,600	0	0	113,600
7664-41-7	Ammonia	173,611	14,601	0	10	21,166	209,388	0	49	21,117
78-93-3	Methyl ethyl ketone	194,631	35	0	20	1,991	196,677	6,535	0	1,991
108-88-3	Toluene	177,617	5	0	0	750	178,372	0	0	750
7664-93-9	Sulfuric acid	125,611	0	0	0	0	125,611	0	0	0
100-41-4	Ethylbenzene	109,727	5	0	0	0	109,732	0	0	0
—	Manganese compounds	1,860	76,550	0	23,990	7	102,407	8,297	0	7
7440-50-8	Copper	1,058	265	0	5	101,009	102,337	3,348	92,048	8,961

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	3,072,000	0	0	0	0	3,072,000	0	0	0
7664-93-9	Sulfuric acid	740,000	0	0	0	0	740,000	0	0	0
7664-39-3	Hydrogen fluoride	206,600	0	0	0	0	206,600	0	0	0
—	Barium compounds	1,454	0	0	8,900	36,020	46,374	0	1,020	35,000
—	Nickel compounds	845	0	0	2,100	13,850	16,795	5,920	6,650	7,200
—	Manganese compounds	364	0	0	4,400	0	4,764	0	0	0
7664-41-7	Ammonia	4,400	0	0	0	0	4,400	0	0	0
—	Zinc compounds	296	0	0	3,500	0	3,796	0	0	0
—	Chromium compounds	220	0	0	2,800	0	3,020	0	0	0
67-56-1	Methanol	504	0	0	0	0	504	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

NEW HAMPSHIRE

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Crown Paper Co. Berlin Mill, Berlin, Coos	575,281	95,815	0	0	0	76,827	747,923	0	737
Venture Holdings Corp. Bailey Corp., Seabrook, Rockingham	494,597	30	0	0	0	0	494,627	0	0
Groveton Paper Board Inc., Groveton, Coos	141,310	993	0	0	0	0	142,303	0	386
Nashua Corp., Merrimack, Hillsborough	79,103	0	0	0	0	0	79,103	1,250	0
Sturm Ruger Co. Inc. Pine Tree Castings Div., Newport, Sullivan	77,955	0	0	0	0	0	77,955	510	114,100
Kalwall Corp. Panels & Accessories Div., Manchester, Hillsborough	72,000	0	0	0	0	0	72,000	0	135
Webster Fndy. Co., Franklin, Merrimack	68,460	20	0	0	0	505	68,985	20	20,744
Hadco Corp., Derry, Rockingham	57,651	0	0	0	0	0	57,651	13,347	6,865
Textile Tapes Corp., Gonic, Strafford	55,635	0	0	0	0	0	55,635	0	0
Crown Paper Co. Cascade Mills, Gorham, Coos	50,120	0	0	0	0	0	50,120	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Public Service Co. of New Hampshire, Merrimack Station, Bow, Merrimack	3,096,175	0	0	0	0	21,700	3,117,875	0	0
Public Service Co. of New Hampshire Schiller Station, Portsmouth, Rockingham	728,851	0	0	0	0	0	728,851	890	42,200
Newington Station, Newington, Rockingham	201,153	0	0	0	0	0	201,153	6,780	0
Chemtan Co. Inc., Exeter, Rockingham	504	0	0	0	0	0	504	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

NEW HAMPSHIRE

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Crown Paper Co. Berlin Mill, Berlin, Coos	0	0	17,445	0	8,792,530	0	748,705	9,558,680	0
Venture Holdings Corp. Bailey Corp., Seabrook, Rockingham	265,618	0	0	38,039	0	0	463,492	767,149	60
Groveton Paper Board Inc., Groveton, Coos	0	0	11,417	192	101,170	328	142,303	255,410	0
Nashua Corp., Merrimack, Hillsborough	1,017,703	0	0	11,207	6,524	19	83,755	1,119,208	4,350
Sturm Ruger Co. Inc. Pine Tree Castings Div., Newport, Sullivan	0	193,434	0	0	133,355	0	76,430	403,219	1
Hadco Corp., Derry, Rockingham	0	177,260	0	0	121,763	128,387	75,951	503,361	0
Kalwall Corp. Panels & Accessories Div., Manchester, Hillsborough	1,600	0	0	0	0	0	72,000	73,600	0
Webster Fndy. Co., Franklin, Merrimack	785,171	728,800	0	0	0	40,725	67,500	1,622,196	0
Hitchiner Mfg. Co. Inc., Milford, Hillsborough	0	0	0	304	0	729	63,865	64,898	0
Textile Tapes Corp., Gonic, Strafford	0	0	0	0	0	0	55,635	55,635	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Public Service Co. of New Hampshire, Merrimack Station, Bow, Merrimack	0	0	0	0	110	0	3,117,900	3,118,010	0
Public Service Co. of New Hampshire Schiller Station, Portsmouth, Rockingham	0	0	0	0	0	0	772,400	772,400	0
Newington Station, Newington, Rockingham	0	30	0	0	0	0	223,910	223,940	0
Chemtan Co. Inc., Exeter, Rockingham	0	0	0	0	0	18	504	522	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

NEW JERSEY

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	15,805,084	8,344,821	24,149,905
Air Emissions	9,330,070	7,995,069	17,325,139
Surface Water Discharges	6,132,478	37,852	6,170,330
Underground Injection Class I Wells	2	0	2
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	71,759	0	71,759
Other On-site Land Releases	270,775	311,900	582,675
Off-site Releases (Transfers Off-site to Disposal)*	4,088,383	2,525,167	6,613,550
Total On- and Off-site Releases	19,893,467	10,869,988	30,763,455
Recycled On-site	86,428,952	8,211,938	94,640,890
Recycled Off-site	40,389,248	414,098	40,803,346
Energy Recovery On-site	205,384,100	0	205,384,100
Energy Recovery Off-site	25,742,415	22,307,863	48,050,278
Treated On-site	132,394,426	23,588,601	155,983,027
Treated Off-site**	27,467,724	674,430	28,142,154
Quantity Released On- and Off-site***	20,739,656	11,073,709	31,813,365
Total Production-related Waste Managed	538,546,521	66,270,639	604,817,160
Total Non-production-related Waste Managed	123,335	7,610	130,945

Transfers Off-site for Further Waste Management/Disposal

Recycling	40,941,350	411,462	41,352,812
Energy Recovery	24,959,975	22,349,439	47,309,414
Treatment	6,024,141	1,638,892	7,663,033
Publicly Owned Treatment Works (POTWs)	19,698,700	154,224	19,852,924
Metals and Metal Compounds*	47,427	831	48,258
Non-metal TRI Chemicals**	19,651,273	153,393	19,804,666
Other Off-site Transfers****	132,581	0	132,581
Off-site Transfers to Disposal *(not including metals to POTWs)*	4,106,901	2,529,308	6,636,209
Total Transfers Off-site for Further Waste Management/Disposal	95,863,648	27,083,325	122,946,973

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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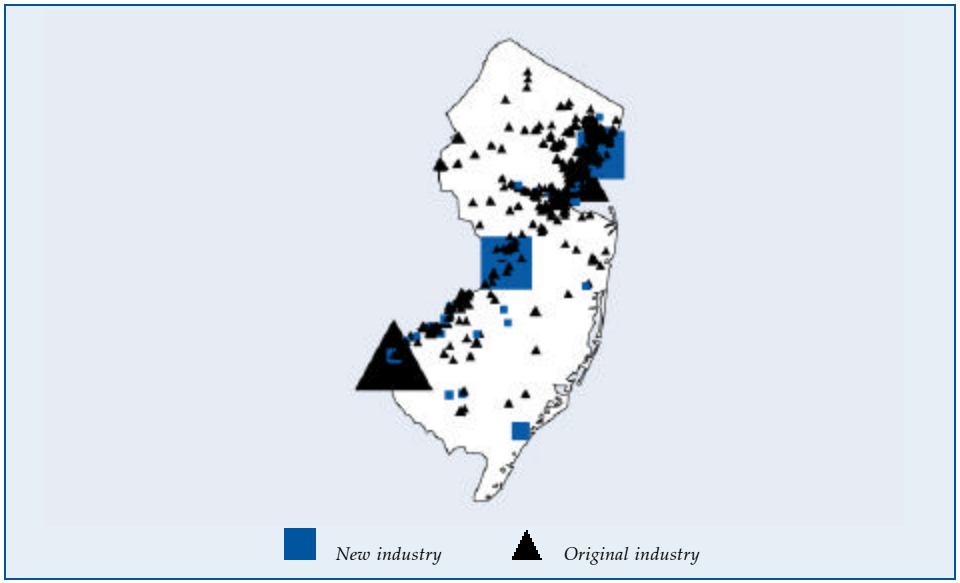

The largest marker in the state map represents the largest facility for on-site releases in the state of New Jersey. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	8,115,011
Square Miles	7,419
Total Facilities	616
Total Forms	2,491
Form As	452

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	33	39	37
Pounds	19,893,467	10,869,988	30,763,455
National Rank for Total On-site Releases**			
Rank	34	40	38
Pounds	15,805,084	8,344,821	24,149,905
National Rank for Total Releases within State***			
Rank	33	40	38
Pounds	19,276,009	8,567,426	27,843,435
National Rank for Production-related Waste Managed			
Rank	16	22	19
Pounds	538,546,521	66,270,639	604,817,160

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

NEW JERSEY

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Nitrate compounds	3,403	5,535,414	0	2,312	0	5,541,129	2,154	0	0
—	Zinc compounds	13,278	12,442	0	36,284	1,858,023	1,920,027	62,639	1,326,977	531,647
1330-20-7	Xylene (mixed isomers)	1,111,038	1,201	0	588	129,517	1,242,344	755	105,841	23,676
108-88-3	Toluene	1,100,979	571	0	131	12,782	1,114,463	55,198	7,025	5,757
7664-41-7	Ammonia	586,071	205,476	0	1,571	27,415	820,533	159,932	18,626	8,789
7664-93-9	Sulfuric acid	766,870	0	0	0	18,100	784,970	0	18,100	0
67-56-1	Methanol	728,093	4	0	0	10,076	738,173	4,891	0	10,076
—	Lead compounds	7,123	290	0	13,527	530,984	551,924	63,021	418,576	112,408
—	Glycol ethers	474,599	28	0	0	59,346	533,973	254	49,750	9,596
78-93-3	Methyl ethyl ketone	454,494	3,342	0	396	25,820	484,052	325,267	25,816	4

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	6,094,571	0	0	0	0	6,094,571	0	0	0
1332-21-4	Asbestos (friable)	0	0	0	0	1,987,020	1,987,020	0	0	1,987,020
7664-93-9	Sulfuric acid	798,428	0	0	0	0	798,428	0	0	0
—	Zinc compounds	50,766	28,513	0	41,000	134,411	254,690	5,978	121,411	13,000
7664-41-7	Ammonia	221,377	3,000	0	5,900	0	230,277	0	0	0
1634-04-4	Methyl tert-butyl ether	200,565	48	0	0	2,751	203,364	340	1,884	867
7664-39-3	Hydrogen fluoride	190,872	0	0	0	0	190,872	0	0	0
—	Barium compounds	3,197	525	0	120,000	39,910	163,632	36,650	1,906	38,004
—	Lead compounds	470	293	0	25,000	108,974	134,737	1,490	1,219	108,805
110-54-3	n-Hexane	98,532	12	0	0	930	99,474	35	368	567

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

NEW JERSEY

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Du Pont Chambers Works, Deepwater, Salem	257,234	3,615,391	0	0	55,880	0	3,928,505	372	427,710
Bayway Refining Co., Linden, Union	420,056	2,105,959	0	0	0	0	2,526,015	0	2,186
Ford Edison Assembly Plant, Edison, Middlesex	869,306	0	0	0	0	0	869,306	5,501	6,939
Aluminum Shapes L.L.C., Delair, Camden	851,311	0	0	0	0	0	851,311	0	0
GMTG — Linden Assembly, Linden, Union	381,812	0	0	0	0	0	381,812	3,166	29,860
Coastal Eagle Point Oil Co., Westville, Gloucester	325,233	9,671	0	0	0	0	334,904	14,874	3,262
Mallinckrodt Baker Inc., Phillipsburg, Warren	71,646	258,792	0	0	0	0	330,438	0	25
Degussa Corp. Metal Group, South Plainfield, Middlesex	262,162	0	0	0	0	0	262,162	93	0
Roche Vitamins Inc., Belvidere, Warren	238,714	4,392	0	0	0	0	243,106	0	139
American Natl. Can Co. Piscataway NJ Facility, Piscataway, Middlesex	217,140	0	0	0	0	0	217,140	51	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Mercer Generating Station, Hamilton Township, Mercer	3,200,330	2,000	0	0	0	0	3,202,330	0	0
Hudson Generating Station, Jersey City, Hudson	2,567,990	6,000	0	0	0	311,900	2,885,890	443	0
B. L. England Generating Station, Beesleys Point, Cape May	752,464	28,314	0	0	0	0	780,778	130,040	0
Deepwater Generating Station, Pennsville, Salem	484,714	0	0	0	0	0	484,714	0	34,149
Eagle Point Cogeneration Ptnr. (EPCP), Westville, Gloucester	155,836	0	0	0	0	0	155,836	0	0
Natl. Refrigerants Inc., Rosenhayn, Cumberland	112,079	0	0	0	0	0	112,079	0	0
Motiva Sewaren Terminal, Sewaren, Middlesex	85,215	23	0	0	0	0	85,238	1,057	195
Vineland Municipal Electric Utility H M Down Station, Vineland, Cumberland	83,010	5	0	0	0	0	83,015	255	13,000
Cogen Tech. Nologies NJ Venture L.P., Bayonne, Hudson	78,278	0	0	0	0	0	78,278	0	0
Carney's Point Generating Plant, Carneys Point, Salem	72,881	0	0	0	0	0	72,881	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

NEW JERSEY

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Du Pont Chambers Works, Deepwater, Salem	0	1,580,941	0	42,587	27,109,439	3,224,496	4,357,549	36,315,012	2,698
Bayway Refining Co., Linden, Union	9,540	7,400	0	0	13,373,200	15	2,526,630	15,916,785	998
Penick Corp., Newark, Essex	36,698,049	0	0	0	0	1,997,407	2,027,281	40,722,737	50
Ford Edison Assembly Plant, Edison, Middlesex	0	511,112	0	27,521	320,000	10,564	870,602	1,739,799	0
Aluminum Shapes L.L.C., Delair, Camden	62,922	0	0	15,222	1,051,303	15,222	758,611	1,903,280	0
GMTG — Linden Assembly, Linden, Union	0	185,300	0	39,176	74,058	6,500	487,131	792,165	0
Coastal Eagle Point Oil Co., Westville, Gloucester	0	0	68,456,000	42,632	1,157,980	10,458	336,180	70,003,250	809
Degussa Corp. Metal Group, South Plainfield, Middlesex	194,200	75,724	0	0	529,183	3,429,093	262,189	4,490,389	0
Roche Vitamins Inc., Belvidere, Warren	0	0	0	0	190,413	0	259,227	449,640	1
Apache Prods. Co., Linden, Union	0	0	0	0	63,928	0	244,181	308,109	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Mercer Generating Station, Hamilton Township, Mercer	0	0	0	0	69,000	0	3,201,650	3,270,650	0
Hudson Generating Station, Jersey City, Hudson	0	14,500	0	0	71,000	0	2,883,000	2,968,500	0
S&W Waste Inc., South Kearny, Hudson	0	34,404	0	1,267,000	172,180	436,515	2,196,200	4,106,299	0
B. L. England Generating Station, Beesleys Point, Cape May	0	0	0	0	1,000,253	0	910,817	1,911,070	1
Deepwater Generating Station, Pennsville, Salem	0	0	0	0	59,124	0	518,863	577,987	0
Safety-Kleen (Bridgeport) Inc., Bridgeport, Gloucester	0	0	0	0	19,661,500	0	236,823	19,898,323	0
Eagle Point Cogeneration Ptnr. (EPCP), Westville, Gloucester	0	0	0	0	0	0	155,358	155,358	0
Natl. Refrigerants Inc., Rosenhayn, Cumberland	0	0	0	0	0	0	109,055	109,055	3,024
Vineland Municipal Electric Utility H M Down Station, Vineland, Cumberland	0	0	0	0	0	12	95,857	95,869	4
Motiva Sewaren Terminal, Sewaren, Middlesex	0	2,001	0	171	348	5,217	93,879	101,616	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

NEW MEXICO

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	24,718,685	229,744,369	254,463,054
Air Emissions	1,531,690	1,091,492	2,623,182
Surface Water Discharges	12,508	8,476	20,984
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	23,174,487	228,644,401	251,818,888
Off-site Releases (Transfers Off-site to Disposal)*	109,121	5,547,140	5,656,261
Total On- and Off-site Releases	24,827,806	235,291,509	260,119,315
Recycled On-site	2,231,074	0	2,231,074
Recycled Off-site	743,952	693,846	1,437,798
Energy Recovery On-site	25,925,563	0	25,925,563
Energy Recovery Off-site	52,123	0	52,123
Treated On-site	4,485,523	3,790,000	8,275,523
Treated Off-site**	559,469	0	559,469
Quantity Released On- and Off-site***	24,272,903	236,028,923	260,301,826
Total Production-related Waste Managed	58,270,607	240,512,769	298,783,376
Total Non-production-related Waste Managed	2,110	15	2,125

Transfers Off-site for Further Waste Management/Disposal

Recycling	751,092	335,588	1,086,680
Energy Recovery	52,744	0	52,744
Treatment	245,804	0	245,804
Publicly Owned Treatment Works (POTWs)	313,689	0	313,689
Metals and Metal Compounds*	409	0	409
Non-metal TRI Chemicals**	313,280	0	313,280
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	108,712	5,547,140	5,655,852
Total Transfers Off-site for Further Waste Management/Disposal	1,472,041	5,882,728	7,354,769

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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The largest marker in the state map represents the largest facility for on-site releases in the state of New Mexico. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	1,736,931
Square Miles	121,365
Total Facilities	57
Total Forms	297
Form As	34

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	29	5	7
Pounds	24,827,806	235,291,509	260,119,315
National Rank for Total On-site Releases**			
Rank	27	5	7
Pounds	24,718,685	229,744,369	254,463,054
National Rank for Total Releases within State***			
Rank	30	5	7
Pounds	24,776,916	235,291,509	260,068,425
National Rank for Production-related Waste Managed			
Rank	40	7	31
Pounds	58,270,607	240,512,769	298,783,376

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

NEW MEXICO

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Zinc compounds	3,314	643	0	11,000,000	0	11,003,957	0	0	0
—	Copper compounds	107,000	11,000	0	8,840,000	250	8,958,250	0	250	0
—	Barium compounds	160	0	0	860,000	59,036	919,196	0	17,600	41,436
—	Nitrate compounds	0	0	0	655,992	0	655,992	0	0	0
—	Lead compounds	6,310	212	0	484,300	15,150	505,972	0	15,150	0
—	Manganese compounds	148	431	0	350,000	0	350,579	0	0	0
—	Arsenic compounds	1,098	32	0	330,000	0	331,130	0	0	0
108-88-3	Toluene	295,153	0	0	1,255	0	296,408	0	0	0
—	Cobalt compounds	11	0	0	250,000	0	250,011	0	0	0
1330-20-7	Xylene (mixed isomers)	245,500	0	0	1,862	250	247,612	0	0	250

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Copper compounds	164,611	5,504	0	112,124,000	340,000	112,634,115	0	340,000	0
—	Manganese compounds	11,609	258	0	86,040,600	560,000	86,612,467	0	560,000	0
—	Zinc compounds	4,182	2,400	0	17,824,683	230,000	18,061,265	0	230,000	0
—	Barium compounds	9,524	0	0	4,728,702	3,800,000	8,538,226	0	3,800,000	0
—	Chromium compounds	952	0	0	3,016,321	125,000	3,142,273	0	125,000	0
—	Lead compounds	10,878	3	0	2,037,515	280,000	2,328,396	0	280,000	0
—	Cobalt compounds	351	0	0	1,500,813	48,000	1,549,164	0	48,000	0
—	Nickel compounds	1,214	1	0	711,204	80,000	792,419	0	80,000	0
7664-93-9	Sulfuric acid	354,262	0	0	0	0	354,262	0	0	0
—	Arsenic compounds	2,118	0	0	325,408	0	327,526	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory NEW MEXICO

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Phelps Dodge Hidalgo Inc., Playas, Hidalgo	281,020	12,495	0	0	0	22,483,300	22,776,815	0	0
Giant Refining Co., Jamestown, Mc Kinley	584,698	0	0	0	0	22,877	607,575	0	0
Leprino Foods Co., Roswell, Chaves	0	0	0	0	0	595,642	595,642	0	0
Navajo Refining Co., Artesia, Eddy	254,826	0	0	0	0	6,231	261,057	0	662
San Juan Refy. Co., Bloomfield, San Juan	167,627	0	0	0	0	3,874	171,501	0	0
DLD Resources Inc., Monument, Lea	45,250	0	0	0	0	0	45,250	0	0
Dairy Farmers of America Inc., Portales, Roosevelt	5	0	0	0	0	40,000	40,005	0	0
Novabus Inc., Roswell, Chaves	30,750	0	0	0	0	770	31,520	775	5
Intel Corp., Rio Rancho, Sandoval	24,065	0	0	0	0	0	24,065	0	3,735
Lea Refining Co., Lovington, Lea	22,093	0	0	0	0	0	22,093	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Chino Mines Co., Hurley, Grant	311,490	6	0	0	0	193,666,712	193,978,208	0	0
Phelps Dodge Tyrone Inc., Tyrone, Grant	19,231	2	0	0	0	28,180,000	28,199,233	0	0
San Juan Mine, Waterflow, San Juan	0	0	0	0	0	3,113,000	3,113,000	0	0
BHP Navajo Coal Co., Fruitland, San Juan	0	0	0	0	0	2,507,000	2,507,000	0	0
Four Corners Steam Electric Station, Fruitland, San Juan	255,842	8,468	0	0	0	1,107,900	1,372,210	2,460,000	0
San Juan Generating Station, Waterflow, San Juan	455,521	0	0	0	0	69,789	525,310	3,086,000	0
Tucumcari Refined Prods. Terminal, Tucumcari, Quay	29,370	0	0	0	0	0	29,370	0	0
Albuquerque Refined Prods. Terminal, Albuquerque, Bernalillo	12,685	0	0	0	0	0	12,685	0	0
Griffith Micro Science Inc., Santa Teresa, Dona Ana	5,990	0	0	0	0	0	5,990	0	0
American Minerals Inc., Deming, Luna	1,338	0	0	0	0	0	1,338	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

NEW MEXICO

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Phelps Dodge Hidalgo Inc., Playas, Hidalgo	0	0	0	0	0	0	22,812,068	22,812,068	0
Giant Refining Co., Jamestown, Mc Kinley	744,426	0	0	0	0	0	607,517	1,351,943	0
Navajo Refining Co., Artesia, Eddy	336,602	0	25,925,563	0	721,084	0	261,824	27,245,073	0
San Juan Refy. Co., Bloomfield, San Juan	0	313	0	0	10,820	7,945	169,865	188,943	0
Motorola Ceramic Prods., Albuquerque, Bernalillo	0	26,000	0	6,600	0	4,800	84,460	121,860	0
Elastimold, Albuquerque, Bernalillo	0	0	0	0	0	0	45,754	45,754	0
DLD Resources Inc., Monument, Lea	0	0	0	0	1,316,416	0	45,000	1,361,416	0
Dairy Farmers of America Inc., Portales, Roosevelt	0	0	0	0	51,000	0	43,003	94,003	0
Novabus Inc., Roswell, Chaves	0	38,400	0	4,720	15	11,800	30,845	85,780	0
Intel Corp., Rio Rancho, Sandoval	0	638,080	0	31,620	425,700	333,300	27,960	1,456,660	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Chino Mines Co., Hurley, Grant	0	693,846	0	0	0	0	194,782,310	195,476,156	0
Phelps Dodge Tyrone Inc., Tyrone, Grant	0	0	0	0	0	0	28,186,200	28,186,200	0
Four Corners Steam Electric Station, Fruitland, San Juan	0	0	0	0	2,840,000	0	3,781,000	6,621,000	0
San Juan Generating Station, Waterflow, San Juan	0	0	0	0	510,000	0	3,611,310	4,121,310	0
San Juan Mine, Waterflow, San Juan	0	0	0	0	0	0	3,113,000	3,113,000	0
BHP Navajo Coal Co., Fruitland, San Juan	0	0	0	0	0	0	2,507,000	2,507,000	12
Tucumcari Refined Prods. Terminal, Tucumcari, Quay	0	0	0	0	0	0	28,070	28,070	0
Albuquerque Refined Prods. Terminal, Albuquerque, Bernalillo	0	0	0	0	0	0	11,535	11,535	0
Griffith Micro Science Inc., Santa Teresa, Dona Ana	0	0	0	0	440,000	0	6,000	446,000	0
American Minerals Inc., Deming, Luna	0	0	0	0	0	0	1,338	1,338	3

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

NEW YORK

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	29,881,956	34,888,969	64,770,925
Air Emissions	21,867,773	16,485,823	38,353,596
Surface Water Discharges	7,873,875	173,812	8,047,687
Underground Injection Class I Wells	500	0	500
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	14,688	6,231,080	6,245,768
Other On-site Land Releases	125,120	11,998,254	12,123,374
Off-site Releases (Transfers Off-site to Disposal)*	5,096,324	577,257	5,673,581
Total On- and Off-site Releases	34,978,280	35,466,226	70,444,506
Recycled On-site	156,470,019	236,300	156,706,319
Recycled Off-site	83,112,852	482,201	83,595,053
Energy Recovery On-site	29,244,695	0	29,244,695
Energy Recovery Off-site	7,742,986	65,316	7,808,302
Treated On-site	101,936,741	7,272,514	109,209,255
Treated Off-site**	11,745,062	72,323	11,817,385
Quantity Released On- and Off-site***	34,482,342	35,412,800	69,895,142
Total Production-related Waste Managed	424,734,697	43,541,454	468,276,151
Total Non-production-related Waste Managed	103,088	51,672	154,760

Transfers Off-site for Further Waste Management/Disposal

Recycling	82,416,941	499,581	82,916,522
Energy Recovery	7,728,406	65,433	7,793,839
Treatment	5,130,245	74,928	5,205,173
Publicly Owned Treatment Works (POTWs)	5,067,315	110	5,067,425
Metals and Metal Compounds*	147,138	110	147,248
Non-metal TRI Chemicals**	4,920,177	0	4,920,177
Other Off-site Transfers****	0	6,000	6,000
Off-site Transfers to Disposal *(not including metals to POTWs)*	5,460,756	580,126	6,040,882
Total Transfers Off-site for Further Waste Management/Disposal	105,803,663	1,226,178	107,029,841

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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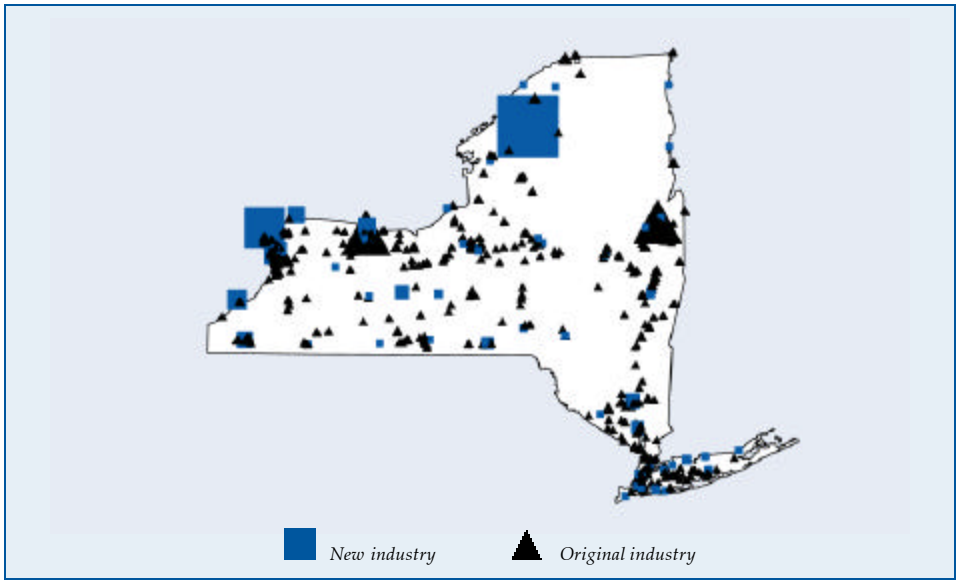

The largest marker in the state map represents the largest facility for on-site releases in the state of New York. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	18,175,301
Square Miles	47,224
Total Facilities	737
Total Forms	2,495
Form As	407

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	25	23	27
Pounds	34,978,280	35,466,226	70,444,506
National Rank for Total On-site Releases**			
Rank	25	23	26
Pounds	29,881,956	34,888,969	64,770,925
National Rank for Total Releases within State***			
Rank	22	23	25
Pounds	39,153,168	35,355,344	74,508,512
National Rank for Production-related Waste Managed			
Rank	20	27	23
Pounds	424,734,697	43,541,454	468,276,151

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

NEW YORK

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Nitrate compounds	327,391	7,306,165	0	25,500	137,765	7,796,821	0	112,913	24,852
108-88-3	Toluene	3,108,359	397	0	420	142,296	3,251,472	23,632	114,445	27,851
7647-01-0	Hydrochloric acid	2,662,919	5	0	0	90,000	2,752,924	0	0	90,000
—	Zinc compounds	1,369,724	30,417	0	22,523	1,078,352	2,501,016	76,170	812,744	310,803
67-56-1	Methanol	2,074,316	133,827	0	9,693	18,443	2,236,279	1,292	18,055	388
75-09-2	Dichloromethane	2,035,283	4,305	0	0	29,091	2,068,679	2,245	220	28,871
7664-41-7	Ammonia	1,171,336	116,041	0	3	157,830	1,445,210	2	2,282	155,548
—	Glycol ethers	1,231,825	6,110	0	0	14,389	1,252,324	4,957	3,489	10,900
1330-20-7	Xylene (mixed isomers)	790,206	501	0	385	4,316	795,408	33,664	611	3,705
71-36-3	n-Butyl alcohol	774,306	14,115	0	0	2,076	790,497	97	2,076	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	10,611,440	0	0	0	0	10,611,440	0	0	0
—	Zinc compounds	68,008	22,271	0	8,525,611	22,862	8,638,752	26,746	16,720	6,142
—	Lead compounds	2,546	354	0	4,309,088	7,927	4,319,915	28,548	0	7,927
7664-93-9	Sulfuric acid	4,306,428	0	0	0	0	4,306,428	0	0	0
—	Barium compounds	5,092	64,284	0	1,606,530	275,680	1,951,586	2,077	242,498	33,182
1332-21-4	Asbestos (friable)	0	0	0	1,100,000	0	1,100,000	0	0	0
7664-39-3	Hydrogen fluoride	1,086,000	0	0	0	0	1,086,000	279	0	0
1336-36-3	Polychlorinated biphenyls (PCBs)	1	1	0	870,000	0	870,002	0	0	0
—	Manganese compounds	2,317	25,269	0	648,300	43,875	719,761	3,026	38,386	5,489
—	Chromium compounds	1,542	30,223	0	319,400	24,751	375,916	22,361	14,350	10,401

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

NEW YORK

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Eastman Kodak Co. Kodak Park, Rochester, Monroe	5,469,653	657,052	0	0	0	30,757	6,157,462	93,208	540
Finch Pruyn & Co. Inc., Glens Falls, Warren	255,505	5,668,000	0	0	0	0	5,923,505	37,350	0
Metal Container Corp. NWB, New Windsor, Orange	940,410	0	0	0	0	0	940,410	500	0
Quebecor Printing Buffalo Inc., Depew, Erie	774,483	0	0	0	0	0	774,483	250	0
Alcoa, Massena, St Lawrence	713,231	476	0	0	0	0	713,707	21,080	949
3M, Tonawanda, Tonawanda, Erie	632,000	0	0	0	0	0	632,000	1,204	0
GE Co., Silicone Prods., Waterford, Saratoga	394,242	69,605	0	0	1,755	37	465,639	0	204,200
Corning Inc., Canton, St Lawrence	440,005	0	0	0	0	0	440,005	0	0
International Paper, Ticonderoga, Essex	341,061	66,294	0	0	0	30,700	438,055	0	0
Paxar Corp., Orangeburg, Rockland	417,010	0	0	0	0	0	417,010	80,100	18,335

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
ZCA Mines Inc. #4 Mine & Mill, Gouverneur, St Lawrence	64,482	5,232	0	0	0	10,071,197	10,140,911	0	0
CWM Chemical Services L.L.C, Model City, Niagara	13	816	0	0	6,231,080	0	6,231,909	0	41,380
C.R. Huntley Steam Station, Tonawanda, Erie	2,804,370	99,110	0	0	0	0	2,903,480	131,000	0
Niagara Mohawk Power Corp. Dunkirk Steam Station, Dunkirk, Chautauqua	2,344,290	59,600	0	0	0	0	2,403,890	84,900	0
Russell Station, Rochester, Monroe	1,820,590	330	0	0	0	0	1,820,920	300	0
AES Somerset L.L.C., Barker, Niagara	345,800	164	0	0	0	1,420,000	1,765,964	0	0
Samuel Carlson Generating Station, Jamestown, Chautauqua	1,692,241	0	0	0	0	15	1,692,256	59,118	18,335
Danskammer Generating Station, Newburgh, Orange	1,466,580	76	0	0	0	50,100	1,516,756	0	0
AES-Greenidge,L.L.C., Dresden, Yates	1,003,234	393	0	0	0	220,000	1,223,627	0	0
Lovett Generating Station, West Haverstraw, Rockland	1,002,567	1,772	0	0	0	1,980	1,006,319	4,151	56,700

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

NEW YORK

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Eastman Kodak Co. Kodak Park, Rochester, Monroe	0	1,836,901	0	0	32,455,750	514,184	6,145,658	40,952,493	0
Finch Pruyn & Co. Inc., Glens Falls, Warren	0	0	0	0	3,966,000	0	5,961,000	9,927,000	0
Metal Container Corp. NWB, New Windsor, Orange	0	0	0	110	12,900	20	940,850	953,880	0
Quebecor Printing Buffalo Inc., Depew, Erie	3,837,594	19,448	0	19,439	0	504	774,483	4,651,468	0
Alcoa, Massena, St Lawrence	6,339,063	145,200	0	0	1,530	0	739,330	7,225,123	0
GE Co., Silicone Prods., Waterford, Saratoga	990,000	1,700,000	1,400,000	0	15,783,100	93,305	654,999	20,621,404	15,901
3M, Tonawanda, Tonawanda, Erie	1,100,000	0	680,000	0	0	13,000	625,000	2,418,000	0
Garlock Inc., Palmyra, Wayne	3,316,657	0	0	0	15,300	9,772	567,950	3,909,679	0
Bar Tech. 13 Bar Mill, Blasdell, Erie	0	28,200	0	0	0	0	460,000	488,200	0
Bethlehem Steel Corp., Galvanized Prods. Div., Lackawanna, Erie	480,000	440,000	0	0	0	630,000	456,000	2,006,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
ZCA Mines Inc. #4 Mine & Mill, Gouverneur, St Lawrence	0	0	0	0	0	0	10,140,911	10,140,911	0
CWM Chemical Services L.L.C, Model City, Niagara	0	64	0	0	26,000	56,831	6,272,952	6,355,847	0
C.R. Huntley Steam Station, Tonawanda, Erie	0	0	0	0	560,000	0	3,032,000	3,592,000	0
Niagara Mohawk Power Corp. Dunkirk Steam Station, Dunkirk, Chautauqua	0	0	0	0	900,000	0	2,488,100	3,388,100	0
Russell Station, Rochester, Monroe	0	0	0	0	0	300	1,821,100	1,821,400	0
Samuel Carlson Generating Station, Jamestown, Chautauqua	0	0	0	0	0	0	1,770,471	1,770,471	0
AES Somerset L.L.C., Barker, Niagara	0	0	0	0	2,930,000	0	1,765,000	4,695,000	0
Danskammer Generating Station, Newburgh, Orange	0	0	0	0	0	0	1,529,000	1,529,000	0
AES-Greenidge, L.L.C., Dresden, Yates	0	0	0	0	0	0	1,223,000	1,223,000	0
Lovett Generating Station, West Haverstraw, Rockland	0	0	0	0	130,000	0	1,067,600	1,197,600	9

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

NORTH CAROLINA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	70,747,735	57,117,092	127,864,827
Air Emissions	44,780,426	48,633,566	93,413,992
Surface Water Discharges	7,294,815	100,822	7,395,637
Underground Injection Class I Wells	29,100	0	29,100
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	1,335	0	1,335
Other On-site Land Releases	18,642,059	8,382,704	27,024,763
Off-site Releases (Transfers Off-site to Disposal)*	4,882,861	650,231	5,533,092
Total On- and Off-site Releases	75,630,596	57,767,323	133,397,919
Recycled On-site	450,977,261	0	450,977,261
Recycled Off-site	79,998,828	1,040,979	81,039,807
Energy Recovery On-site	24,962,940	0	24,962,940
Energy Recovery Off-site	13,655,285	119,363	13,774,648
Treated On-site	136,366,086	3,482,140	139,848,226
Treated Off-site**	6,062,485	859,407	6,921,892
Quantity Released On- and Off-site***	76,984,678	57,902,186	134,886,864
Total Production-related Waste Managed	789,007,563	63,404,075	852,411,638
Total Non-production-related Waste Managed	90,473	3,982	94,455

Transfers Off-site for Further Waste Management/Disposal

Recycling	80,532,150	844,479	81,376,629
Energy Recovery	13,419,908	305,688	13,725,596
Treatment	3,445,221	866,579	4,311,800
Publicly Owned Treatment Works (POTWs)	2,115,595	520	2,116,115
Metals and Metal Compounds*	26,887	265	27,152
Non-metal TRI Chemicals**	2,088,708	255	2,088,963
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	6,026,061	694,954	6,721,015
Total Transfers Off-site for Further Waste Management/Disposal	105,538,935	2,712,220	108,251,155

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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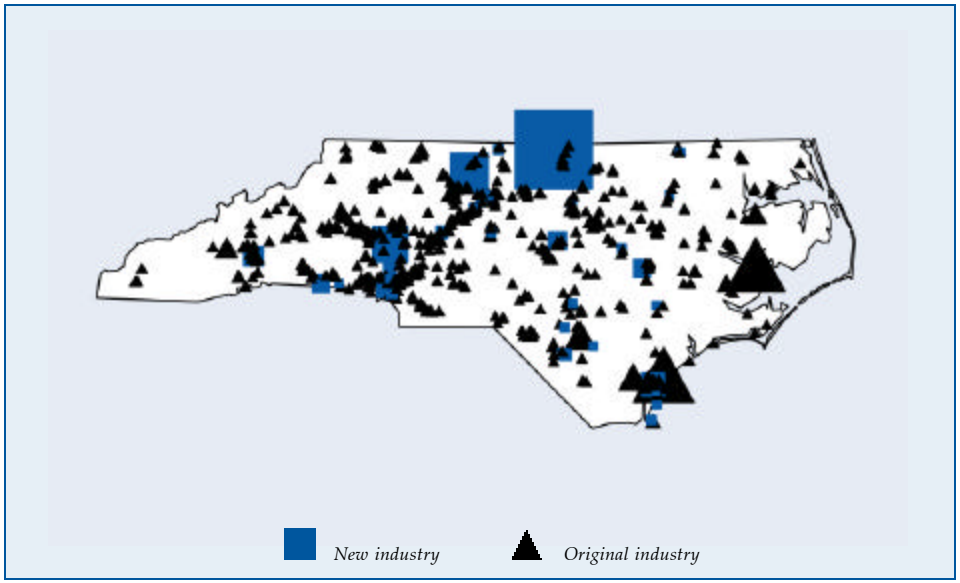
To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of North Carolina. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	7,546,493
Square Miles	48,718
Total Facilities	877
Total Forms	2,909
Form As	620

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	12	19	17
Pounds	75,630,596	57,767,323	133,397,919
National Rank for Total On-site Releases**			
Rank	10	18	16
Pounds	70,747,735	57,117,092	127,864,827
National Rank for Total Releases within State***			
Rank	12	19	17
Pounds	75,404,709	57,294,485	132,699,194
National Rank for Production-related Waste Managed			
Rank	9	23	14
Pounds	789,007,563	63,404,075	852,411,638

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory NORTH CAROLINA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Chromium compounds	7,329	303	0	10,000,010	46,089	10,053,731	9,497	26,249	19,845
67-56-1	Methanol	8,755,534	173,508	0	92,955	81,952	9,103,949	81	12,648	69,304
7664-38-2	Phosphoric acid	38,759	5	0	7,678,654	4,494	7,721,912	0	4,244	250
—	Nitrate compounds	255	5,805,523	0	28,911	243,270	6,077,959	1,196	243,270	0
108-88-3	Toluene	5,266,954	31	0	597	211,858	5,479,440	21,100	205,730	6,128
7664-41-7	Ammonia	3,309,460	903,634	0	25,524	22,307	4,260,925	4,057	18,695	3,612
110-54-3	n-Hexane	3,885,758	0	0	0	27	3,885,785	0	10	17
7647-01-0	Hydrochloric acid	2,891,118	0	0	0	0	2,891,118	0	0	0
75-09-2	Dichloromethane	2,590,437	4,271	0	0	0	2,594,708	32,914	0	0
78-93-3	Methyl ethyl ketone	2,425,354	1,740	0	3,091	26,530	2,456,715	24,215	15,762	10,768

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	40,841,301	0	0	0	0	40,841,301	0	0	0
—	Barium compounds	41,435	44,911	0	4,466,235	146,035	4,698,616	2,352	146,025	10
7664-39-3	Hydrogen fluoride	3,968,640	0	0	0	0	3,968,640	0	0	0
7664-93-9	Sulfuric acid	3,372,378	0	0	0	0	3,372,378	0	0	0
—	Copper compounds	6,510	6,827	0	798,430	11,030	822,797	21	11,020	10
—	Manganese compounds	9,917	19,560	0	642,510	30	672,017	193	20	10
—	Zinc compounds	18,524	1,289	0	581,300	55,242	656,355	14	9,870	45,372
—	Chromium compounds	8,467	1,637	0	567,420	31	577,555	23	21	10
—	Arsenic compounds	11,301	17,183	0	479,260	20	507,764	60	15	5
—	Nickel compounds	7,565	2,064	0	442,280	20	451,929	4	15	5

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory NORTH CAROLINA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Occidental Chemical Corp., Castle Hayne, New Hanover	6,369	37	0	0	0	10,000,006	10,006,412	0	13,000
PCS Phosphate Co. Inc., Aurora Div., Aurora, Beaufort	1,972,606	0	0	0	0	7,678,366	9,650,972	0	0
Smithfield Packing Co. Inc., Tar Heel Div., Tar Heel, Bladen	10,528	4,116,067	0	0	0	0	4,126,595	0	0
International Paper, Riegelwood, Columbus	2,886,560	249,095	29,100	0	0	554,352	3,719,107	0	0
Champion Intl. Corp., Canton, Haywood	2,265,877	88,812	0	0	0	0	2,354,689	295,395	0
Weyerhaeuser Co., Plymouth NC Mill, Plymouth, Martin	1,961,604	271,019	0	0	0	109,162	2,341,785	58,100	0
Du Pont Cape Fear, Leland, Brunswick	1,676,202	590,355	0	0	0	2,383	2,268,940	56,438	184
Shurtape Techs. Inc., Hickory Tape Plant, Hickory, Catawba	1,807,798	0	0	0	0	0	1,807,798	53,752	0
Weyerhaeuser, Vanceboro, Craven	1,375,440	68,850	0	0	0	2,510	1,446,800	0	0
Railroad Friction Prods. Corp., Maxton, Scotland	952,040	7	0	0	0	0	952,047	3,260	26

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Roxboro Steam Electric Plant, Semora, Person	15,148,574	7,803	0	0	0	2,134,500	17,290,877	0	0
Duke Energy Belews Creek Steam Station, Walnut Cove, Stokes	6,579,395	3,884	0	0	0	689,555	7,272,834	55	0
Duke Energy Marshall Steam Station, Terrell, Catawba	5,696,215	9,325	0	0	0	938,690	6,644,230	57	0
Mayo Electric Generating Plant, Roxboro, Person	4,720,134	8,190	0	0	0	934,000	5,662,324	0	0
L. V. Sutton Plant, Wilmington, New Hanover	3,127,286	17,640	0	0	0	598,000	3,742,926	0	0
Asheville Plant, Arden, Buncombe	2,419,423	5,432	0	0	0	458,000	2,882,855	0	0
Duke Energy Plant Allen, Belmont, Gaston	1,847,800	17,720	0	0	0	700,045	2,565,565	0	45
Cape Fear Steam Electric Plant, Moncure, Chatham	2,067,218	438	0	0	0	394,000	2,461,656	0	0
Duke Energy, Cliffside Steam Station, Cliffside, Rutherford	1,720,530	20,486	0	0	0	508,040	2,249,056	40	0
H. F. Lee Steam Electric Plant, Goldsboro, Wayne	1,870,976	2,649	0	0	0	371,000	2,244,625	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Occidental Chemical Corp., Castle Hayne, New Hanover	0	0	0	0	0	0	10,000,000	10,000,000	9,300
PCS Phosphate Co. Inc., Aurora Div., Aurora, Beaufort	103,477,000	0	0	0	0	0	9,650,892	113,127,892	0
Smithfield Packing Co. Inc., Tar Heel Div., Tar Heel, Bladen	0	0	0	0	772,045	0	4,126,595	4,898,640	0
International Paper, Riegelwood, Columbus	0	0	2,378,360	0	15,627,611	0	3,685,130	21,691,101	45
Champion Intl. Corp., Canton, Haywood	0	0	10,607,000	0	5,043,272	0	2,620,650	18,270,922	0
Weyerhaeuser Co., Plymouth NC Mill, Plymouth, Martin	56,034	10,596	0	220	18,125,437	0	2,399,885	20,592,172	0
Du Pont Cape Fear, Leland, Brunswick	1,149,427	0	452,150	5,305,380	3,420,791	161,257	2,325,562	12,814,567	0
Shurtape Techs. Inc., Hickory Tape Plant, Hickory, Catawba	19,776,110	0	0	8,696	0	6,075	1,856,200	21,647,081	0
Weyerhaeuser, Vanceboro, Craven	0	0	59,030	0	20,210,480	0	1,446,320	21,715,830	0
Porcelanite Inc., Lexington, Davidson	4,037	40,370	0	0	0	0	1,182,351	1,226,758	1

** The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Roxboro Steam Electric Plant, Semora, Person	0	0	0	0	29,000	0	17,333,000	17,362,000	460
Duke Energy Belews Creek Steam Station, Walnut Cove, Stokes	0	0	0	0	268,000	0	7,276,900	7,544,900	15
Duke Energy Marshall Steam Station, Terrell, Catawba	0	0	0	0	104,000	0	6,646,300	6,750,300	15
Mayo Electric Generating Plant, Roxboro, Person	0	0	0	0	0	0	5,662,000	5,662,000	0
L. V. Sutton Plant, Wilmington, New Hanover	0	0	0	0	0	0	3,745,000	3,745,000	0
Asheville Plant, Arden, Buncombe	0	0	0	0	0	0	2,881,000	2,881,000	0
Duke Energy Plant Allen, Belmont, Gaston	0	0	0	0	22,000	0	2,567,000	2,589,000	12
Cape Fear Steam Electric Plant, Moncure, Chatham	0	0	0	0	0	0	2,458,000	2,458,000	0
Duke Energy, Cliffside Steam Station, Cliffside, Rutherford	0	0	0	0	46,000	0	2,250,300	2,296,300	12
H. F. Lee Steam Electric Plant, Goldsboro, Wayne	0	0	0	0	0	0	2,242,000	2,242,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

NORTH DAKOTA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	2,301,759	9,630,257	11,932,016
Air Emissions	2,255,973	1,405,179	3,661,152
Surface Water Discharges	43,280	59,011	102,291
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	2,506	8,166,067	8,168,573
Off-site Releases (Transfers Off-site to Disposal)*	147,721	11,302,469	11,450,190
Total On- and Off-site Releases	2,449,480	20,932,726	23,382,206
Recycled On-site	131,875	0	131,875
Recycled Off-site	683,398	2,500	685,898
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	37,540	0	37,540
Treated On-site	4,581,936	832,000	5,413,936
Treated Off-site**	559,345	0	559,345
Quantity Released On- and Off-site***	2,467,835	21,396,839	23,864,674
Total Production-related Waste Managed	8,461,929	22,231,339	30,693,268
Total Non-production-related Waste Managed	12,700	15	12,715

Transfers Off-site for Further Waste Management/Disposal

Recycling	683,417	2,500	685,917
Energy Recovery	51,794	0	51,794
Treatment	4,458	0	4,458
Publicly Owned Treatment Works (POTWs)	587,717	0	587,717
Metals and Metal Compounds*	17	0	17
Non-metal TRI Chemicals**	587,700	0	587,700
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	148,200	11,302,469	11,450,669
Total Transfers Off-site for Further Waste Management/Disposal	1,475,586	11,304,969	12,780,555

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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The largest marker in the state map represents the largest facility for on-site releases in the state of North Dakota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	638,244
Square Miles	68,994
Total Facilities	43
Total Forms	182
Form As	33

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	47	29	39
Pounds	2,449,480	20,932,726	23,382,206
National Rank for Total On-site Releases**			
Rank	47	39	44
Pounds	2,301,759	9,630,257	11,932,016
National Rank for Total Releases within State***			
Rank	47	29	39
Pounds	2,480,195	20,758,755	23,238,950
National Rank for Production-related Waste Managed			
Rank	49	34	48
Pounds	8,461,929	22,231,339	30,693,268

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

NORTH DAKOTA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
110-54-3	n-Hexane	749,191	0	0	0	0	749,191	0	0	0
7664-41-7	Ammonia	610,371	15,211	0	750	45	626,377	0	0	45
100-42-5	Styrene	157,113	0	0	0	0	157,113	0	0	0
1330-20-7	Xylene (mixed isomers)	153,639	0	0	0	55	153,694	5	0	55
108-88-3	Toluene	125,144	0	0	1	0	125,145	1	0	0
—	Glycol ethers	89,431	0	0	0	0	89,431	1,500	0	0
7664-39-3	Hydrogen fluoride	69,150	0	0	0	0	69,150	0	0	0
115-07-1	Propylene	49,020	0	0	0	0	49,020	0	0	0
7439-96-5	Manganese	1,421	33	0	0	40,641	42,095	880	40,641	0
71-43-2	Benzene	39,180	0	0	0	1	39,181	0	0	1

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Barium compounds	36,330	23,005	0	6,269,000	8,959,748	15,288,083	0	8,809,748	150,000
—	Manganese compounds	15,092	16,000	0	750,600	1,417,937	2,199,629	0	1,398,937	19,000
7664-39-3	Hydrogen fluoride	563,000	0	0	0	0	563,000	0	0	0
7647-01-0	Hydrochloric acid	407,600	0	0	0	0	407,600	0	0	0
—	Arsenic compounds	6,697	0	0	139,820	224,297	370,814	0	223,757	540
—	Chromium compounds	4,488	0	0	98,100	191,486	294,074	0	188,986	2,500
—	Copper compounds	527	20,000	0	103,280	166,002	289,809	0	164,702	1,300
7664-93-9	Sulfuric acid	266,860	0	0	0	0	266,860	0	0	0
7440-39-3	Barium	2,506	0	0	240,000	3,800	246,306	0	3,800	0
—	Antimony compounds	1,305	0	0	99,600	67,000	167,905	0	67,000	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory NORTH DAKOTA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Release in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Amoco Mandan Refy., Mandan, Morton	507,862	1,070	0	0	0	1,756	510,688	440	3,387
ADM Processing, Velva, Mc Henry	387,700	0	0	0	0	0	387,700	0	0
ADM Northern Sun Div., Enderlin, Ransom	267,800	0	0	0	0	0	267,800	0	0
American Crystal Sugar Co., Hillsboro, Traill	247,330	250	0	0	0	0	247,580	0	0
Minn-Dak Farmers Co-Op., Wahpeton, Richland	180,241	28,333	0	0	0	0	208,574	0	0
American Crystal Sugar Co., Drayton, Pembina	164,790	13,570	0	0	0	750	179,110	0	0
Nordic Fiberglass,Inc., Devils Lake, Ramsey	134,847	0	0	0	0	0	134,847	0	0
Case Corp., Fargo, Cass	85,307	57	0	0	0	0	85,364	1,127	0
Melroe Co., Gwinner, Sargent	74,195	0	0	0	0	0	74,195	33,739	0
TIC United Corp. Wil-Rich Div., Wahpeton, Richland	59,099	0	0	0	0	0	59,099	108,711	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Great River Energy, Coal Creek Station, Underwood, Mc Lean	665,075	0	0	0	0	3,330,400	3,995,475	1,895,800	0
Leland Olds Station, Stanton, Mercer	142,701	5	0	0	0	2,077,420	2,220,126	803,300	173,971
Otter Tail Power Co. Coyote Station, Beulah, Mercer	159,919	0	0	0	0	1,333,740	1,493,659	302,282	0
Milton R Young Station, Center, Oliver	182,289	0	0	0	0	878,400	1,060,689	2,809,066	0
Great River Energy Stanton Station, Stanton, Mercer	78,505	59,000	0	0	0	182,400	319,905	656,600	0
R.M. Heskett Station, Mandan, Morton	26,506	6	0	0	0	267,000	293,512	4,450	0
Antelope Valley Station, Beulah, Mercer	149,412	0	0	0	0	0	149,412	4,657,000	0
Falkirk Mining Co., Underwood, Mc Lean	0	0	0	0	0	75,220	75,220	0	0
Coteau Properties Co. Freedom Mine, Beulah, Mercer	0	0	0	0	0	21,487	21,487	0	0
HCI Dyce Chemical Inc., Dickinson, Stark	772	0	0	0	0	0	772	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory NORTH DAKOTA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Amoco Mandan Refy., Mandan, Morton	131,000	2,483	0	308	1,461,000	365	516,770	2,111,926	2,700
ADM Processing, Velva, Mc Henry	0	0	0	0	0	0	400,414	400,414	0
ADM Northern Sun Div., Enderlin, Ransom	0	0	0	0	0	400	267,800	268,200	0
American Crystal Sugar Co., Hillsboro, Traill	0	0	0	0	247,080	0	247,080	494,160	0
Minn-Dak Farmers Co-Op., Wahpeton, Richland	0	0	0	0	2,676,831	0	208,574	2,885,405	0
American Crystal Sugar Co., Drayton, Pembina	0	0	0	0	149,038	0	177,610	326,648	0
TIC United Corp. Wil-Rich Div., Wahpeton, Richland	0	107,236	0	2,879	0	0	167,139	277,254	0
Nordic Fiberglass,Inc., Devils Lake, Ramsey	0	0	0	0	0	0	134,847	134,847	0
Case Corp., Fargo, Cass	0	435,000	0	6,020	0	117	86,472	527,609	0
Melroe Co., Gwinner, Sargent	0	0	0	0	11,402	73,945	74,286	159,633	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Great River Energy, Coal Creek Station, Underwood, Mc Lean	0	0	0	0	0	0	6,377,000	6,377,000	15
Antelope Valley Station, Beulah, Mercer	0	0	0	0	0	0	4,796,100	4,796,100	0
Milton R Young Station, Center, Oliver	0	0	0	0	0	0	3,814,000	3,814,000	0
Leland Olds Station, Stanton, Mercer	0	0	0	0	0	0	3,229,000	3,229,000	0
Otter Tail Power Co. Coyote Station, Beulah, Mercer	0	0	0	0	619,000	0	1,805,660	2,424,660	0
Great River Energy Stanton Station, Stanton, Mercer	0	0	0	0	0	0	973,000	973,000	0
R.M. Heskett Station, Mandan, Morton	0	2,500	0	0	213,000	0	304,600	520,100	0
Falkirk Mining Co., Underwood, Mc Lean	0	0	0	0	0	0	75,220	75,220	0
Coteau Properties Co. Freedom Mine, Beulah, Mercer	0	0	0	0	0	0	21,487	21,487	0
HCI Dyce Chemical Inc., Dickinson, Stark	0	0	0	0	0	0	772	772	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

NORTHERN MARIANAS

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	0	3,086	3,086
Air Emissions	0	3,066	3,066
Surface Water Discharges	0	20	20
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	0	0	0
Off-site Releases (Transfers Off-site to Disposal)*	0	0	0
Total On- and Off-site Releases	0	3,086	3,086
Recycled On-site	0	0	0
Recycled Off-site	0	0	0
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	0	0	0
Treated On-site	0	0	0
Treated Off-site**	0	0	0
Quantity Released On- and Off-site***	0	3,091	3,091
Total Production-related Waste Managed	0	3,091	3,091
Total Non-production-related Waste Managed	0	1	1

Transfers Off-site for Further Waste Management/Disposal

Recycling	0	0	0
Energy Recovery	0	0	0
Treatment	0	0	0
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	0	0	0
Total Transfers Off-site for Further Waste Management/Disposal	0	0	0

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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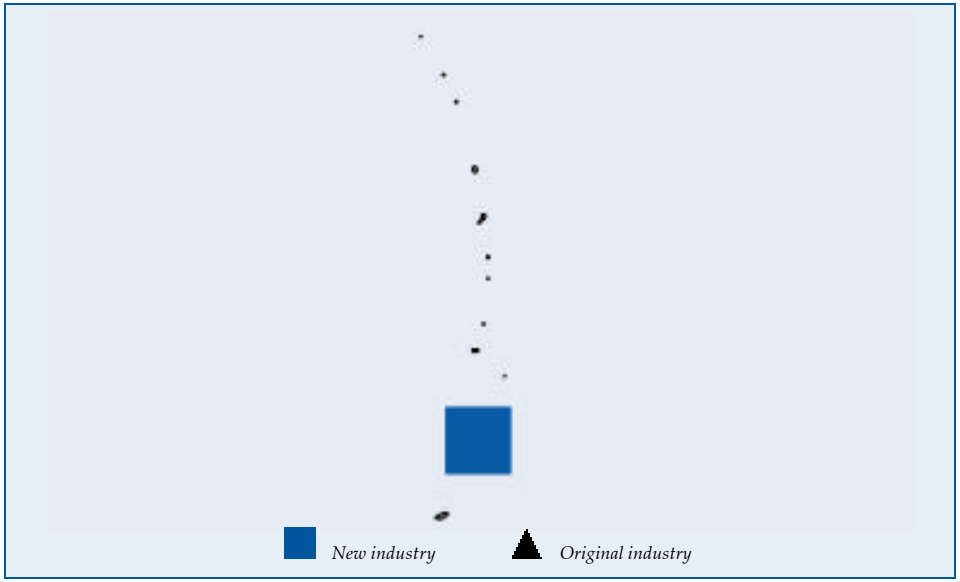

The largest marker in the state map represents the largest facility for on-site releases in the Northern Mariana Islands. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

State/TRI Data

Population	66,527
Square Miles	179
Total Facilities	2
Total Forms	10
Form As	0

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	—	55	56
Pounds	0	3,086	3,086
National Rank for Total On-site Releases**			
Rank	—	55	56
Pounds	0	3,086	3,086
National Rank for Total Releases within State***			
Rank	—	55	56
Pounds	0	3,086	3,086
National Rank for Production-related Waste Managed			
Rank	—	55	56
Pounds	0	3,091	3,091

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory NORTHERN MARIANAS

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
108-88-3	Toluene	2,066	5	0	0	0	2,071	0	0	0
110-54-3	n-Hexane	740	5	0	0	0	745	0	0	0
71-43-2	Benzene	249	5	0	0	0	254	0	0	0
1330-20-7	Xylene (mixed isomers)	6	5	0	0	0	11	0	0	0
100-41-4	Ethylbenzene	5	0	0	0	0	5	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory NORTHERN MARIANAS

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Pounds	Transferred Within State Pounds	Transferred Out of State Pounds

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases *	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Mobil Oil Corp. Saipan Terminal, Saipan, Saipan	3,060	20	0	0	0	0	3,080	0	0
Mobil Oil, Saipan Aviation Terminal, Saipan, Saipan	6	0	0	0	0	0	6	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory NORTHERN MARIANAS

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Mobil Oil Corp. Saipan Terminal, Saipan, Saipan	0	0	0	0	0	0	3,085	3,085	0
Mobil Oil, Saipan Aviation Terminal, Saipan, Saipan	0	0	0	0	0	0	6	6	1

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

1998 Toxics Release Inventory

OHIO

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	108,556,396	178,483,569	287,039,965
Air Emissions	63,602,506	95,718,441	159,320,947
Surface Water Discharges	5,778,926	389,243	6,168,169
Underground Injection Class I Wells	13,329,724	17,841,000	31,170,724
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	1,378,051	50,522,000	51,900,051
Other On-site Land Releases	24,467,189	14,012,885	38,480,074
Off-site Releases (Transfers Off-site to Disposal)*	35,777,962	13,450,349	49,228,311
Total On- and Off-site Releases	144,334,358	191,933,918	336,268,276
Recycled On-site	268,220,342	25,901,182	294,121,524
Recycled Off-site	183,145,482	2,092,551	185,238,033
Energy Recovery On-site	115,563,551	0	115,563,551
Energy Recovery Off-site	35,621,104	43,058,799	78,679,903
Treated On-site	141,513,103	80,392,444	221,905,547
Treated Off-site**	34,776,713	27,564,344	62,341,057
Quantity Released On- and Off-site***	148,744,315	191,943,004	340,687,319
Total Production-related Waste Managed	927,584,610	370,952,324	1,298,536,934
Total Non-production-related Waste Managed	570,267	93,206	663,473

Transfers Off-site for Further Waste Management/Disposal

Recycling	182,020,154	2,084,829	184,104,983
Energy Recovery	35,502,911	65,761,370	101,264,281
Treatment	15,056,822	4,490,954	19,547,776
Publicly Owned Treatment Works (POTWs)	16,876,712	128,548	17,005,260
Metals and Metal Compounds*	321,551	1,138	322,689
Non-metal TRI Chemicals**	16,555,161	127,410	16,682,571
Other Off-site Transfers****	8,071	0	8,071
Off-site Transfers to Disposal *(not including metals to POTWs)*	44,680,805	13,786,844	58,467,649
Total Transfers Off-site for Further Waste Management/Disposal	294,145,475	86,252,545	380,398,020

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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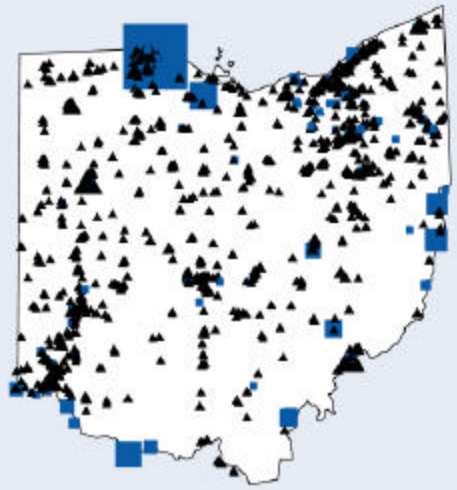

New industry *Original industry*

The largest marker in the state map represents the largest facility for on-site releases in the state of Ohio. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	11,209,493
Square Miles	40,953
Total Facilities	1,682
Total Forms	6,390
Form As	1,091

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	3	6	4
Pounds	144,334,358	191,933,918	336,268,276
National Rank for Total On-site Releases**			
Rank	3	6	6
Pounds	108,556,396	178,483,569	287,039,965
National Rank for Total Releases within State***			
Rank	3	6	4
Pounds	146,223,967	192,607,698	338,831,665
National Rank for Production-related Waste Managed			
Rank	6	4	6
Pounds	927,584,610	370,952,324	1,298,536,934

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

OHIO

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Manganese compounds	518,270	767,757	250	17,417,595	6,387,260	25,091,132	5,566,142	5,553,432	945,379
7664-41-7	Ammonia	10,883,202	378,472	1,659,400	59,280	219,021	13,199,375	458,786	178,471	55,693
—	Zinc compounds	251,012	12,265	0	4,970,660	6,443,150	11,677,087	25,976,684	6,592,477	1,613,019
75-05-8	Acetonitrile	104,157	0	6,850,000	0	0	6,954,157	21,032	0	0
7440-47-3	Chromium	132,315	1,119	0	2,452	6,483,753	6,619,639	603,892	6,567,962	19,791
463-58-1	Carbonyl sulfide	4,809,127	0	0	0	0	4,809,127	0	0	0
—	Nitrate compounds	4,188	4,396,591	244,000	44	112,633	4,757,456	111,141	50,140	62,493
67-56-1	Methanol	4,301,242	62,203	27,000	0	6,513	4,396,958	65,566	6,432	81
1330-20-7	Xylene (mixed isomers)	4,215,881	2,517	0	7	9,064	4,227,469	11,703	2,946	6,118
—	Glycol ethers	3,995,702	10	0	650	82,267	4,078,629	21,499	77,324	4,943

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	68,615,417	1	0	0	0	68,615,418	0	0	0
7440-66-6	Zinc (fume or dust)	2,135	355	0	42,000,000	133,505	42,135,995	250	74,255	59,250
7664-93-9	Sulfuric acid	20,752,002	1	0	0	0	20,752,003	0	0	0
7664-39-3	Hydrogen fluoride	5,655,850	1	2,900,000	0	29,100	8,584,951	0	12,100	17,000
—	Barium compounds	25,703	84,041	0	5,824,058	1,829,236	7,763,038	84,675	1,792,527	68,068
7697-37-2	Nitric acid	116	0	5,300,000	0	31,000	5,331,116	28,557	0	31,000
—	Nitrate compounds	0	750	4,800,000	0	341,452	5,142,202	363	340,000	1,452
—	Nickel compounds	12,545	25,394	310,000	1,081,825	3,307,253	4,737,017	16,870	3,278,633	35,100
—	Zinc compounds	22,406	96,690	350,000	1,353,890	2,862,600	4,685,586	228,415	2,815,512	67,100
—	Chromium compounds	11,553	8,221	660,000	1,155,035	2,007,750	3,842,559	33,665	1,960,150	74,830

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

OHIO

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Elkem Metals Co., Marietta, Washington	3,954,177	773,000	0	0	0	9,864,000	14,591,177	0	76,000
BP Chemicals Inc., Lima, Allen	563,709	0	13,323,037	0	0	0	13,886,746	420	360
GM Powertrain Defiance, Defiance, Defiance	833,151	12,519	0	0	0	6,274,074	7,119,744	1,273	10
Millennium Inorganic Chemicals Inc. — Plant 2, Ashtabula, Ashtabula	3,611,132	140,000	0	0	0	3,300,000	7,051,132	0	0
Millennium Inorganic Chemicals Inc. — Plant 1, Ashtabula, Ashtabula	1,204,273	180,000	0	0	0	2,000,000	3,384,273	0	0
PCS Nitrogen of Ohio L.P., Lima, Allen	3,327,065	52,145	0	0	0	0	3,379,210	0	0
Armco Inc. Coshocton Ops., Coshocton, Coshocton	26,620	2,001,550	0	0	0	0	2,028,170	150,840	0
Owens Corning, Newark, Licking	1,780,818	0	0	0	0	79,925	1,860,743	33,818	0
Scotts Co., Marysville, Union	1,724,646	2,196	0	0	0	0	1,726,842	3,042	1,584
LTV Steel Co. Inc., Cleveland Works, Cleveland, Cuyahoga	50,561	1,880	0	0	1,358,140	0	1,410,581	467,233	11,204

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Envirosafe Services of Ohio Inc., Oregon, Lucas	1,143	0	0	0	50,522,000	0	50,523,143	2,270	78,625
Waste Management of Ohio Inc., Vickery, Sandusky	7	0	17,841,000	0	0	0	17,841,007	0	69,264
Dayton Power & Light Co., J.M Stuart Station, Manchester, Adams	12,808,504	12,778	0	0	0	3,270,000	16,091,282	0	10
Cardinal Plant, Brilliant, Jefferson	11,323,277	158,690	0	0	0	1,696,280	13,178,247	222	7,365
Firstenergy, W.H. Sammis Plant, Stratton, Jefferson	12,115,408	11,273	0	0	0	2,146	12,128,827	2,134,500	0
American Electric Power Co., Muskingum River Plant, Beverly, Washington	7,930,873	23,399	0	0	0	951,020	8,905,292	1	4,038
Ohio Valley Electric Corp., Kyger Creek Station, Gallipolis, Gallia	7,707,645	15,331	0	0	0	1,008,100	8,731,076	10	0
American Electric Power Conesville Plant, Conesville, Coshocton	6,132,623	3,950	0	0	0	1,074,755	7,211,328	9,683	70
Firstenergy Corp., Eastlake Plant, Willoughby, Lake	6,346,570	3,787	0	0	0	0	6,350,357	617,000	0
CG&E Beckjord Generating Station, New Richmond, Clermont	5,416,190	9,897	0	0	0	399,045	5,825,132	252,800	28,560

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

OHIO

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Elkem Metals Co., Marietta, Washington	21,000	35,000	0	0	17,000	0	14,666,777	14,739,777	0
BP Chemicals Inc., Lima, Allen	3,744,000	0	7,254,400	0	3,746,000	20,634	13,880,683	28,645,717	520
GM Powertrain Defiance, Defiance, Defiance	0	0	0	0	170,000	6,737	7,234,700	7,411,437	0
Millennium Inorganic Chemicals Inc. — Plant 2, Ashtabula, Ashtabula	0	0	0	0	3,401,221	0	7,011,132	10,412,353	0
American Steel Foundries, Alliance Plant, Alliance, Stark	58,000,000	0	0	0	0	81,000	5,815,121	63,896,121	0
Wheeling-Pittsburgh Steel Corp. Mingo Junction, Mingo Junction, Jefferson	0	0	0	0	0	0	4,189,210	4,189,210	0
Timken Co. — Faircrest Steel Plant, Canton, Stark	229,950	198,400	0	0	0	0	4,080,000	4,508,350	0
Millennium Inorganic Chemicals Inc. — Plant 1, Ashtabula, Ashtabula	0	0	0	0	4,700,097	0	3,404,295	8,104,392	0
PCS Nitrogen of Ohio L.P., Lima, Allen	3,040,000	0	0	0	3,072,000	0	3,378,600	9,490,600	3,100
CSC Ltd., Warren, Trumbull	0	0	0	0	0	0	3,043,200	3,043,200	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Envirosafe Services of Ohio Inc., Oregon, Lucas	0	0	0	0	0	0	50,522,000	50,522,000	0
Waste Management of Ohio Inc., Vickery, Sandusky	0	0	0	0	0	2,847	17,841,000	17,843,847	0
Dayton Power & Light Co., J.M Stuart Station, Manchester, Adams	0	0	0	0	8,536,000	0	16,082,000	24,618,000	0
Firstenergy, W.H. Sammis Plant, Stratton, Jefferson	0	0	0	0	0	0	14,742,700	14,742,700	15
Cardinal Plant, Brilliant, Jefferson	0	108,300	0	0	2,000,000	0	13,193,000	15,301,300	0
American Electric Power Co., Muskingum River Plant, Beverly, Washington	0	98,700	0	0	1,300,000	0	8,908,000	10,306,700	0
Ohio Valley Electric Corp., Kyger Creek Station, Gallipolis, Gallia	0	0	0	0	1,800,000	0	8,738,000	10,538,000	0
Envirite of Ohio Inc., Canton, Stark	0	270,736	0	0	1,500,000	0	8,160,100	9,930,836	0
American Electric Power Conesville Plant, Conesville, Coshocton	0	45,700	0	0	7,270,000	0	7,214,500	14,530,200	0
Firstenergy Corp., Eastlake Plant, Willoughby, Lake	0	0	0	0	0	0	6,966,000	6,966,000	12

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

OKLAHOMA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	21,652,077	15,893,069	37,545,146
Air Emissions	16,867,200	6,240,341	23,107,541
Surface Water Discharges	751,512	61,874	813,386
Underground Injection Class I Wells	3,318,269	1,109,751	4,428,020
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	525,142	6,642,012	7,167,154
Other On-site Land Releases	189,954	1,839,091	2,029,045
Off-site Releases (Transfers Off-site to Disposal)*	2,527,302	1,758,886	4,286,188
Total On- and Off-site Releases	24,179,379	17,651,955	41,831,334
Recycled On-site	40,910,547	0	40,910,547
Recycled Off-site	21,345,349	0	21,345,349
Energy Recovery On-site	232,300	0	232,300
Energy Recovery Off-site	4,679,332	6,670	4,686,002
Treated On-site	18,606,140	1,831,454	20,437,594
Treated Off-site**	1,514,188	2,266	1,516,454
Quantity Released On- and Off-site***	23,129,013	17,610,376	40,739,389
Total Production-related Waste Managed	110,416,869	19,450,766	129,867,635
Total Non-production-related Waste Managed	284,686	70	284,756

Transfers Off-site for Further Waste Management/Disposal

Recycling	21,823,725	55	21,823,780
Energy Recovery	4,543,790	6,670	4,550,460
Treatment	466,806	560	467,366
Publicly Owned Treatment Works (POTWs)	537,233	0	537,233
Metals and Metal Compounds*	13,591	0	13,591
Non-metal TRI Chemicals**	523,642	0	523,642
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	2,732,161	1,759,920	4,492,081
Total Transfers Off-site for Further Waste Management/Disposal	30,103,715	1,767,205	31,870,920

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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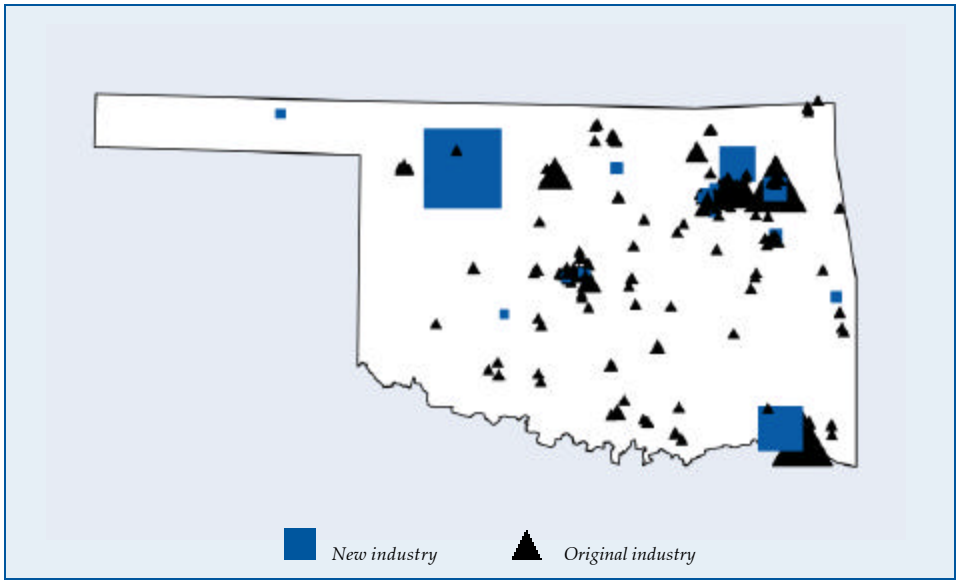

The largest marker in the state map represents the largest facility for on-site releases in the state of Oklahoma. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	3,346,713
Square Miles	68,679
Total Facilities	313
Total Forms	1,072
Form As	209

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	30	32	31
Pounds	24,179,379	17,651,955	41,831,334
National Rank for Total On-site Releases**			
Rank	30	30	32
Pounds	21,652,077	15,893,069	37,545,146
National Rank for Total Releases within State***			
Rank	28	32	31
Pounds	25,063,720	17,540,275	42,603,995
National Rank for Production-related Waste Managed			
Rank	33	36	38
Pounds	110,416,869	19,450,766	129,867,635

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

OKLAHOMA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	5,570,716	47,925	36,447	5	1,900	5,656,993	41	1,900	0
—	Nitrate compounds	31,015	634,543	3,278,140	2,750	2,169	3,948,617	4,970	2,169	0
67-56-1	Methanol	3,181,865	10,722	0	13,111	5,350	3,211,048	15,499	0	5,350
108-88-3	Toluene	1,333,168	4,012	2,700	255	626	1,340,761	993	0	626
1330-20-7	Xylene (mixed isomers)	1,243,526	3,556	0	256	2,697	1,250,035	48,008	0	2,697
—	Zinc compounds	22,748	3,663	511	72,472	732,174	831,568	621,476	412,725	334,898
78-93-3	Methyl ethyl ketone	633,969	2,735	0	409	22,773	659,886	3,362	0	22,773
100-42-5	Styrene	441,223	0	0	7,051	13,354	461,628	3,063	13,354	0
—	Manganese compounds	4,395	30,571	0	355,144	39,655	429,765	64,253	33,473	6,182
—	Glycol ethers	410,942	5	0	0	4,700	415,647	8,597	3,200	1,500

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	4,557,000	0	0	0	0	4,557,000	0	0	0
—	Barium compounds	30,491	36,772	0	1,852,800	939,010	2,859,073	680	802,010	137,000
—	Lead compounds	470	0	1,000	1,800,000	104,488	1,905,958	1,309,341	104,000	488
7664-39-3	Hydrogen fluoride	1,460,000	0	0	0	0	1,460,000	0	0	0
—	Zinc compounds	4,326	3,660	0	1,356,528	72,210	1,436,724	1,376,309	35,210	37,000
—	Nitrate compounds	0	0	1,108,651	0	1,995	1,110,646	2,697	0	1,995
—	Cadmium compounds	220	0	0	1,100,000	9	1,100,229	1,542	0	9
—	Chromium compounds	1,823	172	100	733,043	57,205	792,343	36,020	27,555	29,650
—	Manganese compounds	3,630	1,224	0	165,070	459,510	629,434	11	174,510	285,000
—	Copper compounds	1,772	6,144	0	571,700	37,420	617,036	2,529	26,110	11,310

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

OKLAHOMA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Wil-Gro Fertilizer, Pryor, Mayes	373,820	290,260	3,314,587	0	0	0	3,978,667	0	0
Weyerhaeuser Co., Valliant, Mc Curtain	3,272,496	48,216	0	0	475,778	0	3,796,490	0	0
Terra Nitrogen, Ltd. Partnership, Catoosa, Rogers	2,652,530	256,429	0	0	0	250	2,909,209	0	0
Farmland Ind. Inc., Enid, Garfield	1,826,637	6,010	0	0	0	1,005	1,833,652	0	0
GM SCG, Oklahoma City Assembly, Oklahoma City, Oklahoma	982,023	0	0	0	0	0	982,023	671	8,808
Baker Petrolite Corp., Barnsdall, Osage	840,300	0	2,700	0	0	0	843,000	0	0
Terra Nitrogen Corp. Woodward Complex, Woodward, Woodward	496,035	40,550	0	0	0	0	536,585	0	0
Sunoco Inc., Tulsa, Tulsa	436,678	738	0	0	0	837	438,253	1,100	0
TPI Petroleum Inc., Ardmore, Carter	376,869	44,132	0	0	0	0	421,001	0	0
Fort James Operating Co., Muskogee, Muskogee	356,117	5,565	0	0	0	37,476	399,158	220	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Safety-Kleen (Lone & Grassy Mtn. Inc. — Lone Mtn. Fac.), Waynoka, Major	1,737	0	0	0	6,642,012	0	6,643,749	0	10,525
Western Farmers Electric Coop, Hugo, Choctaw	3,392,000	8,350	0	0	0	8,350	3,408,700	0	0
Northeastern Station, Oologah, Rogers	1,842,485	43,550	0	0	0	641,130	2,527,165	0	0
Grand Riverr Dam Authority Coal Fired Complex, Chouteau, Mayes	176,118	357	0	0	0	1,149,000	1,325,475	0	0
Perma-Fix Treatment Services, Tulsa, Tulsa	0	0	1,109,751	0	0	0	1,109,751	114,450	6,295
Muskogee Generating Station, Muskogee, Muskogee	376,549	8,569	0	0	0	6,151	391,269	701,830	0
Sooner Generating Station, Red Rock, Noble	250,679	808	0	0	0	34,460	285,947	153,820	0
AES Shady Point Inc., Panama, Le Flore	140,472	0	0	0	0	0	140,472	232,000	541,000
Turpin Refined Prods. Terminal, Turpin, Beaver	29,370	0	0	0	0	0	29,370	0	0
Conoco Inc., Glenpool Prods. Terminal, Jenks, Tulsa	15,650	0	0	0	0	0	15,650	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

OKLAHOMA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Wil-Gro Fertilizer, Pryor, Mayes	0	0	0	0	0	0	3,978,667	3,978,667	9,988
Weyerhaeuser Co., Valliant, Mc Curtain	0	0	0	0	7,706,679	0	3,796,740	11,503,419	0
Terra Nitrogen, Ltd. Partnership, Catoosa, Rogers	2,200,000	0	0	0	133,000	0	2,761,490	5,094,490	90,004
Farmland Ind. Inc., Enid, Garfield	2,084,000	186,000	0	0	1,413,600	0	1,832,545	5,516,145	0
GM SCG, Oklahoma City Assembly, Oklahoma City, Oklahoma	0	278,000	0	43,100	123,813	54,385	987,760	1,487,058	0
Baker Petrolite Corp., Barnsdall, Osage	30,386,000	0	0	800	0	0	840,300	31,227,100	21,960
Zinc Corp. of America, Bartlesville, Washington	0	0	0	0	0	0	560,822	560,822	0
Terra Nitrogen Corp. Woodward Complex, Woodward, Woodward	0	0	0	0	0	0	541,090	541,090	5,400
IMCO Recycling Inc., Sapulpa, Creek	0	0	0	0	0	0	448,700	448,700	0
Sunoco Inc., Tulsa, Tulsa	0	0	0	3,653	79,110	0	438,960	521,723	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Safety-Kleen (Lone & Grassy Mtn. Inc. — Lone Mtn. Fac.), Waynoka, Major	0	0	0	0	154,000	0	6,652,061	6,806,061	18
Western Farmers Electric Coop, Hugo, Choctaw	0	0	0	0	0	0	3,380,114	3,380,114	7
Northeastern Station, Oologah, Rogers	0	0	0	0	7,600	0	2,514,200	2,521,800	0
Grand Riverr Dam Authority Coal Fired Complex, Chouteau, Mayes	0	0	0	0	890,000	0	1,325,000	2,215,000	8
Perma-Fix Treatment Services, Tulsa, Tulsa	0	0	0	0	0	1,995	1,228,776	1,230,771	3
Muskogee Generating Station, Muskogee, Muskogee	0	0	0	0	460,000	0	1,095,800	1,555,800	0
AES Shady Point Inc., Panama, Le Flore	0	0	0	0	0	0	914,000	914,000	0
Sooner Generating Station, Red Rock, Noble	0	0	0	0	290,000	0	442,400	732,400	0
Turpin Refined Prods. Terminal, Turpin, Beaver	0	0	0	0	0	0	28,070	28,070	0
Conoco Inc., Glenpool Prods. Terminal, Jenks, Tulsa	0	0	0	0	0	16	15,650	15,666	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

OREGON

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	21,392,056	31,856,544	53,248,600
Air Emissions	16,266,446	227,836	16,494,282
Surface Water Discharges	2,573,110	38	2,573,148
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	24,997	6,105,389	6,130,386
Other On-site Land Releases	2,527,503	25,523,281	28,050,784
Off-site Releases (Transfers Off-site to Disposal)*	1,870,536	21,671	1,892,207
Total On- and Off-site Releases	23,262,592	31,878,215	55,140,807
Recycled On-site	31,674,879	2,530,269	34,205,148
Recycled Off-site	15,126,650	56,598	15,183,248
Energy Recovery On-site	15,244,417	0	15,244,417
Energy Recovery Off-site	2,021,771	34,284	2,056,055
Treated On-site	137,251,954	375,835	137,627,789
Treated Off-site**	14,225,060	962,223	15,187,283
Quantity Released On- and Off-site***	32,818,337	42,969,508	75,787,845
Total Production-related Waste Managed	248,363,068	46,928,717	295,291,785
Total Non-production-related Waste Managed	8,477	1,155	9,632

Transfers Off-site for Further Waste Management/Disposal

Recycling	15,193,877	56,598	15,250,475
Energy Recovery	1,967,429	34,578	2,002,007
Treatment	799,624	997,081	1,796,705
Publicly Owned Treatment Works (POTWs)	13,986,217	4,192	13,990,409
Metals and Metal Compounds*	6,698	120	6,818
Non-metal TRI Chemicals**	13,979,519	4,072	13,983,591
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	11,782,046	21,600	11,803,646
Total Transfers Off-site for Further Waste Management/Disposal	43,729,193	1,114,049	44,843,242

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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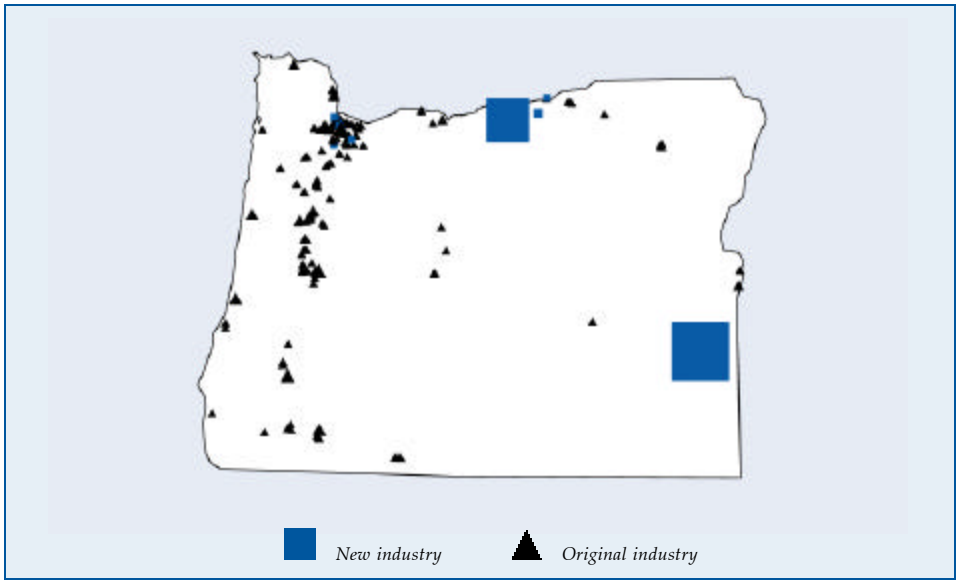
To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Oregon. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	3,281,974
Square Miles	96,003
Total Facilities	275
Total Forms	921
Form As	141

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	31	24	29
Pounds	23,262,592	31,878,215	55,140,807
National Rank for Total On-site Releases**			
Rank	31	24	28
Pounds	21,392,056	31,856,544	53,248,600
National Rank for Total Releases within State***			
Rank	31	24	29
Pounds	24,246,247	31,877,297	56,123,544
National Rank for Production-related Waste Managed			
Rank	27	26	32
Pounds	248,363,068	46,928,717	295,291,785

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

OREGON

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Zinc compounds	81,449	17,146	0	4,120	8,285,862	8,388,577	23,672	281,345	8,008,649
67-56-1	Methanol	6,751,554	154,055	0	153,864	9,431	7,068,904	0	9,426	5
—	Nitrate compounds	0	2,247,063	0	372	668	2,248,103	521,900	668	0
—	Manganese compounds	14,357	56,464	0	449,287	1,506,593	2,026,701	1,008	194,224	1,312,369
7664-41-7	Ammonia	1,843,532	57,547	0	99,515	18,373	2,018,967	17,176	18,313	60
—	Nickel compounds	21,207	66	0	1,581,740	41,367	1,644,380	100	40,505	9,968
100-42-5	Styrene	1,352,088	0	0	0	0	1,352,088	0	0	0
78-93-3	Methyl ethyl ketone	1,057,925	250	0	0	397	1,058,572	665	17	380
50-00-0	Formaldehyde	914,631	1,765	0	56,166	4,652	977,214	894	4,652	0
—	Lead compounds	2,791	314	0	0	856,946	860,051	16,530	42,155	814,791

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Manganese compounds	594	0	0	16,568,513	0	16,569,107	0	0	0
1332-21-4	Asbestos (friable)	102	0	0	6,810,206	0	6,810,308	139,432	0	0
7429-90-5	Aluminum (fume or dust)	0	0	0	1,840,081	0	1,840,081	0	0	0
7439-92-1	Lead	0	0	0	1,216,982	0	1,216,982	0	0	0
7440-43-9	Cadmium	0	0	0	1,068,689	176	1,068,865	0	0	176
—	Copper compounds	324	0	0	979,401	1,267	980,992	0	0	1,267
—	Barium compounds	8,805	0	0	699,155	0	707,960	0	0	0
—	Lead compounds	281	0	0	386,395	0	386,676	30	0	0
8001-58-9	Creosote	0	0	0	320,451	0	320,451	0	0	0
—	Zinc compounds	1,385	4	0	240,593	3,640	245,622	0	169	3,520

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

OREGON

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Weyerhaeuser Co., Springfield, Lane	1,893,915	34,114	0	0	0	0	1,928,029	5,125	0
Glenbrook Nickel Co., Riddle, Douglas	17,350	15	0	0	0	1,545,032	1,562,397	0	0
Imation Enterprises Corp., White City, Jackson	1,116,600	0	0	0	0	0	1,116,600	5	1,060
International Paper, Gardiner Paper Mill, Gardiner, Douglas	1,047,050	24,908	0	0	0	431	1,072,389	0	0
Wacker Siltronic Corp., Portland, Multnomah	8,098	1,046,491	0	0	0	0	1,054,589	0	0
Georgia-Pacific West Inc., Toledo, Lincoln	905,807	44,718	0	0	24,600	0	975,125	0	0
Willamette Inds. Inc. Albany Paper Mill, Albany, Linn	803,707	36,504	0	0	0	10,772	850,983	0	0
Boise Cascade Corp., Saint Helens, Columbia	760,215	0	0	0	0	0	760,215	19,208	0
Oregon Metallurgical Corp., Albany, Linn	63,001	688,000	0	0	0	0	751,001	0	0
Pope & Talbot Inc., Halsey Pulp Mill, Halsey, Linn	535,200	98,550	0	0	0	0	633,750	2,850	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Kinross Delamar Mine, Jordan Valley, Malheur	10,460	0	0	0	0	18,179,396	18,189,856	0	0
Chemical Waste Management of The Northwest Inc., Arlington, Gilliam	4,263	0	0	0	6,105,389	6,723,810	12,833,462	0	9,851
Boardman Plant, Boardman, Morrow	125,780	0	0	0	0	620,005	745,785	0	0
ARCO Prods. Co. Portland Terminal, Portland, Multnomah	19,612	2	0	0	0	0	19,614	0	0
Tosco Portland Terminal, Portland, Multnomah	14,410	36	0	0	0	0	14,446	120	0
Van Waters & Rogers Inc., Portland, Multnomah	11,072	0	0	0	0	0	11,072	0	0
Chemcentral/Portland, Portland, Multnomah	11,048	0	0	0	0	0	11,048	0	0
Chevron Prods. Co. Willbridge Terminal, Portland, Multnomah	10,665	0	0	0	0	0	10,665	49	0
Equilon Portland Terminal, Portland, Multnomah	4,500	0	0	0	0	0	4,500	0	1,250
Great Western Chemical Co. — Portland, Portland, Multnomah	2,785	0	0	0	0	0	2,785	10,450	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

OREGON

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Cascade Steel Rolling Mills, Mc Minnville, Yamhill	0	222,295	0	0	0	0	6,666,304	6,888,599	0
Oregon Steel Mills Inc., Portland, Multnomah	0	0	0	0	0	0	3,595,530	3,595,530	0
Weyerhaeuser Co., Springfield, Lane	40	70	2,804,300	486	2,380,000	0	1,976,209	7,161,105	0
Glenbrook Nickel Co., Riddle, Douglas	0	0	0	0	0	0	1,562,382	1,562,382	0
Imation Enterprises Corp., White City, Jackson	1,149,600	37,600	1,169,000	465,500	2,171,700	69,000	1,117,505	6,179,905	0
International Paper, Gardiner Paper Mill, Gardiner, Douglas	0	0	173,900	0	1,418,240	0	1,072,330	2,664,470	1
Wacker Siltronic Corp., Portland, Multnomah	0	0	0	0	1,500,000	106,000	1,008,090	2,614,090	0
Georgia-Pacific West Inc., Toledo, Lincoln	0	0	0	0	1,011,200	0	974,000	1,985,200	0
Willamette Inds. Inc. Albany Paper Mill, Albany, Linn	0	0	497,000	0	2,225,310	0	848,337	3,570,647	0
Boise Cascade Corp., Saint Helens, Columbia	339,300	0	629,800	0	0	9,012,200	776,950	10,758,250	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Chemical Waste Management of the Northwest Inc., Arlington, Gilliam	0	0	0	0	364,676	559,298	23,928,529	24,852,503	47
Kinross Delamar Mine, Jordan Valley, Malheur	2,530,269	0	0	0	0	0	18,196,996	20,727,265	11
Boardman Plant, Boardman, Morrow	0	0	0	0	0	0	745,760	745,760	0
ARCO Prods. Co. Portland Terminal, Portland, Multnomah	0	0	0	0	0	0	19,617	19,617	0
Tosco Portland Terminal, Portland, Multnomah	0	29	0	29	1,455	401,123	14,308	416,944	0
Great Western Chemical Co. — Portland, Portland, Multnomah	0	0	0	4,761	9,700	1,151	11,710	27,322	0
Chemcentral/Portland, Portland, Multnomah	0	0	0	0	0	0	11,200	11,200	290
Van Waters & Rogers Inc., Portland, Multnomah	0	0	0	0	2	0	11,062	11,064	45
Chevron Prods. Co. Willbridge Terminal, Portland, Multnomah	0	0	0	0	0	420	10,440	10,860	1
Equilon Portland Terminal, Portland, Multnomah	0	0	0	0	0	231	4,070	4,301	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

PENNSYLVANIA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	86,237,168	69,849,054	156,086,222
Air Emissions	38,602,369	59,194,889	97,797,258
Surface Water Discharges	45,483,216	643,790	46,127,006
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	160,801	160,801
On-site Land Releases to RCRA Subtitle C Landfills	95,834	1,210,200	1,306,034
Other On-site Land Releases	2,055,749	8,639,374	10,695,123
Off-site Releases (Transfers Off-site to Disposal)*	49,764,611	10,313,932	60,078,543
Total On- and Off-site Releases	136,001,779	80,162,986	216,164,765
Recycled On-site	399,505,129	153,813	399,658,942
Recycled Off-site	140,635,343	11,012,696	151,648,039
Energy Recovery On-site	54,321,983	0	54,321,983
Energy Recovery Off-site	22,163,998	69,256	22,233,254
Treated On-site	176,655,847	28,859,605	205,515,452
Treated Off-site**	28,973,270	427,076	29,400,346
Quantity Released On- and Off-site***	142,164,686	90,495,259	232,659,945
Total Production-related Waste Managed	964,420,256	131,017,705	1,095,437,961
Total Non-production-related Waste Managed	3,335,635	6,234	3,341,869

Transfers Off-site for Further Waste Management/Disposal

Recycling	134,047,527	11,075,883	145,123,410
Energy Recovery	21,574,090	75,369	21,649,459
Treatment	14,135,376	28,568	14,163,944
Publicly Owned Treatment Works (POTWs)	9,329,125	418,159	9,747,284
Metals and Metal Compounds*	78,220	2,006	80,226
Non-metal TRI Chemicals**	9,250,905	416,153	9,667,058
Other Off-site Transfers****	32,249	0	32,249
Off-site Transfers to Disposal *(not including metals to POTWs)*	59,421,962	10,346,163	69,768,125
Total Transfers Off-site for Further Waste Management/Disposal	238,540,329	21,944,142	260,484,471

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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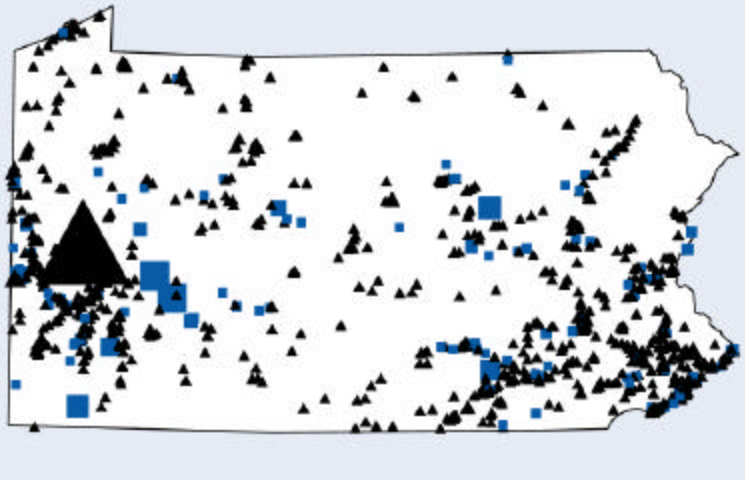

The largest marker in the state map represents the largest facility for on-site releases in the state of Pennsylvania. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	12,001,451
Square Miles	44,820
Total Facilities	1,389
Total Forms	4,988
Form As	706

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	4	7	8
Pounds	136,001,779	80,162,986	216,164,765
National Rank for Total On-site Releases**			
Rank	6	11	9
Pounds	86,237,168	69,849,054	156,086,222
National Rank for Total Releases within State***			
Rank	4	7	8
Pounds	131,681,164	82,429,547	214,110,711
National Rank for Production-related Waste Managed			
Rank	4	11	8
Pounds	964,420,256	131,017,705	1,095,437,961

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

PENNSYLVANIA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Nitrate compounds	139	45,008,562	0	103	154,083	45,162,887	20,467	104,747	49,586
—	Zinc compounds	1,091,983	20,251	0	1,228,849	27,839,563	30,180,646	992,820	20,714,337	7,127,833
—	Manganese compounds	41,134	18,614	0	121,802	5,479,980	5,661,530	679,707	3,570,509	1,914,986
—	Lead compounds	35,782	4,808	0	0	5,398,231	5,438,821	163,975	1,917,569	4,407,438
108-88-3	Toluene	5,182,536	2,382	0	81	125,811	5,310,810	6,991	28,909	113,947
67-56-1	Methanol	4,121,599	8,824	0	3,813	51,734	4,185,970	570	24,071	47,716
7647-01-0	Hydrochloric acid	3,162,325	0	0	0	663,476	3,825,801	200,712	0	663,476
75-09-2	Dichloromethane	3,538,123	37	0	0	44,687	3,582,847	2	3,026	44,669
7664-41-7	Ammonia	3,003,204	259,504	0	253	16,102	3,279,063	187	3,527	12,575
1332-21-4	Asbestos (friable)	752	0	0	0	2,951,472	2,952,224	14,817	2,651,472	300,000

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-Site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	37,274,870	0	0	5	510	37,275,385	0	255	255
7664-93-9	Sulfuric acid	16,805,474	0	0	0	0	16,805,474	0	0	0
—	Barium compounds	124,763	7,229	82,000	2,554,028	1,908,674	4,676,694	195,035	1,938,674	0
7664-39-3	Hydrogen fluoride	4,161,066	0	0	0	0	4,161,066	0	0	0
—	Zinc compounds	64,446	6,226	19,200	1,747,933	1,183,242	3,021,047	62,882	1,171,642	11,600
—	Copper compounds	73,896	1,935	17,000	1,023,418	1,175,393	2,291,642	37,318	1,173,388	2,005
—	Manganese compounds	26,070	24,491	17,400	805,533	897,156	1,770,650	42,964	897,156	0
—	Lead compounds	37,017	419	0	1,078,582	383,801	1,499,819	112,253	355,745	28,056
—	Nitrate compounds	0	554,250	0	680,000	150,000	1,384,250	3,269	150,000	0
—	Chromium compounds	10,714	1,997	14,800	501,895	702,210	1,231,616	51,290	700,205	2,005

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory PENNSYLVANIA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Armco Inc. Butler Ops. (Rte 8S), Butler, Butler	136,108	31,059,449	0	0	0	0	31,195,557	482,090	7,443
J & L Specialty Steel Inc., Midland, Beaver	76,060	3,800,497	0	0	0	0	3,876,557	11,098	531,326
Armco Inc. Butler Ops. (Bantam Ave.), Butler, Butler	21,460	3,600,363	0	0	0	0	3,621,823	56,200	236
Carpenter Tech. Corp., Reading, Berks	72,634	2,749,270	0	0	0	0	2,821,904	1,462	25
International Paper Lock Haven Mill, Lock Haven, Clinton	860,890	148,051	0	0	0	1,167,332	2,176,273	0	0
Foamex L.P., Corry, Erie	1,873,918	0	0	0	0	0	1,873,918	0	0
International Paper Erie Mill, Erie, Erie	1,649,793	7,700	0	0	0	0	1,657,493	133,225	0
P. H. Glatfelter Co., Spring Grove, York	1,423,587	21,670	0	0	0	63,714	1,508,971	8,069	27,362
Allegheny Ludlum Corp., Leechburg, Westmoreland	2,020	1,502,960	0	0	0	0	1,504,980	52,000	250
Cabot Performance Materials, Boyertown, Berks	1,388,471	41,593	0	0	0	0	1,430,064	1,750	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Keystone Station, Shelocta, Armstrong	8,730,088	17,385	0	0	0	654,600	9,402,073	0	0
Eme Homer City Generation L.P., Homer City, Indiana	8,856,289	13,633	0	0	0	324,500	9,194,422	0	0
Montour Steam Electric Station, Danville, Montour	6,500,089	0	0	0	0	113,913	6,614,002	0	0
Hatfield Power Station, Masontown, Fayette	5,558,952	1,260	0	0	0	801,400	6,361,612	0	0
Brunner Island Steam Electric Station, York Haven, York	5,458,051	0	0	0	0	0	5,458,051	0	0
Mill Service Inc., Yukon, Westmoreland	3,500	556,260	0	0	1,116,200	2,824,100	4,500,060	93,910	0
Firstenergy, Bruce Mansfield Plant, Shippingport, Beaver	4,108,800	4,513	0	0	0	0	4,113,313	2,133,900	0
Shawville Station, Shawville, Clearfield	2,771,433	726	0	0	0	372,000	3,144,159	0	0
Conemaugh Station, New Florence, Indiana	1,173,948	12,199	0	0	94,000	893,000	2,173,147	0	0
Armstrong Power Station, Kittanning, Armstrong	1,794,222	765	0	0	0	206,000	2,000,987	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory PENNSYLVANIA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Armco Inc. Butler Ops. (Rte 8S), Butler, Butler	0	5,195,000	0	0	28,499,000	37,088	31,686,300	65,417,388	0
Zinc Corp. of America, Monaca Smelter, Monaca, Beaver	0	0	0	0	0	0	20,941,500	20,941,500	0
USS Mon Valley Works — Edgar Thomson Plant, Braddock, Allegheny	2,160,170	1,300,399	0	0	0	0	5,945,400	9,405,969	0
Bar Tech. S. Inc. Primary Ops., Johnstown, Cambria	0	0	0	0	0	0	5,355,200	5,355,200	0
J & L Specialty Steel Inc., Midland, Beaver	29,990,000	0	0	0	2,300,000	196,973	4,388,008	36,874,981	0
Zinc Corp. of America, Palmerton, Carbon	31,724	0	0	0	0	0	3,891,380	3,923,104	0
Armco Inc. Butler Ops. (Bantam Ave.), Butler, Butler	0	0	0	0	4,300,000	76	3,679,400	7,979,476	0
Carpenter Tech. Corp., Reading, Berks	164,120	4,454,536	0	2,293	2,024,174	0	2,823,366	9,468,489	0
International Paper Lock Haven Mill, Lock Haven, Clinton	0	0	0	0	344,368	0	2,174,863	2,519,231	0
Diamond Mfg. Co., Wyoming, Luzerne	0	556,947	0	0	0	0	1,908,354	2,465,301	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Keystone Station, Shelocta, Armstrong	0	0	0	0	3,040,000	0	9,404,000	12,444,000	0
EME Homer City Generation L.P., Homer City, Indiana	0	0	0	0	5,200,000	0	9,195,000	14,395,000	0
Carlos R. Leffler Inc., Tuckerton Facility, Reading, Berks	0	9,053,064	0	0	0	0	9,091,200	18,144,264	4
Montour Steam Electric Station, Danville, Montour	0	0	0	0	0	0	6,613,696	6,613,696	0
Hatfield Power Station, Masontown, Fayette	0	0	0	0	0	0	6,366,200	6,366,200	0
Firstenergy, Bruce Mansfield Plant, Shippingport, Beaver	0	0	0	0	0	0	6,243,000	6,243,000	15
Brunner Island Steam Electric Station, York Haven, York	0	0	0	0	0	0	5,456,650	5,456,650	0
Mill Service Inc., Yukon, Westmoreland	0	0	0	0	1,300,000	0	4,588,090	5,888,090	0
Shawville Station, Shawville, Clearfield	0	95	0	0	941,300	0	3,141,600	4,082,995	0
Conemaugh Station, New Florence, Indiana	0	0	0	0	8,930,000	0	2,172,900	11,102,900	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

PUERTO RICO

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	6,643,152	10,395,073	17,038,225
Air Emissions	6,504,721	10,167,420	16,672,141
Surface Water Discharges	128,874	72,912	201,786
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	250	0	250
Other On-site Land Releases	9,307	154,741	164,048
Off-site Releases (Transfers Off-site to Disposal)*	643,651	263,703	907,354
Total On- and Off-site Releases	7,286,803	10,658,776	17,945,579
Recycled On-site	12,450,070	3,860,419	16,310,489
Recycled Off-site	11,561,577	1,875,384	13,436,961
Energy Recovery On-site	692,502	0	692,502
Energy Recovery Off-site	11,095,257	8,561,449	19,656,706
Treated On-site	18,518,748	117,170	18,635,918
Treated Off-site**	11,680,723	2,070,889	13,751,612
Quantity Released On- and Off-site***	7,306,280	10,654,869	17,961,149
Total Production-related Waste Managed	73,305,157	27,140,180	100,445,337
Total Non-production-related Waste Managed	12,304	7	12,311

Transfers Off-site for Further Waste Management/Disposal

Recycling	11,208,523	1,875,384	13,083,907
Energy Recovery	11,103,381	8,561,451	19,664,832
Treatment	8,759,520	2,102,040	10,861,560
Publicly Owned Treatment Works (POTWs)	3,275,848	65	3,275,913
Metals and Metal Compounds*	2,379	0	2,379
Non-metal TRI Chemicals**	3,273,469	65	3,273,534
Other Off-site Transfers****	1,428	0	1,428
Off-site Transfers to Disposal *(not including metals to POTWs)*	643,134	271,514	914,648
Total Transfers Off-site for Further Waste Management/Disposal	34,991,834	12,810,454	47,802,288

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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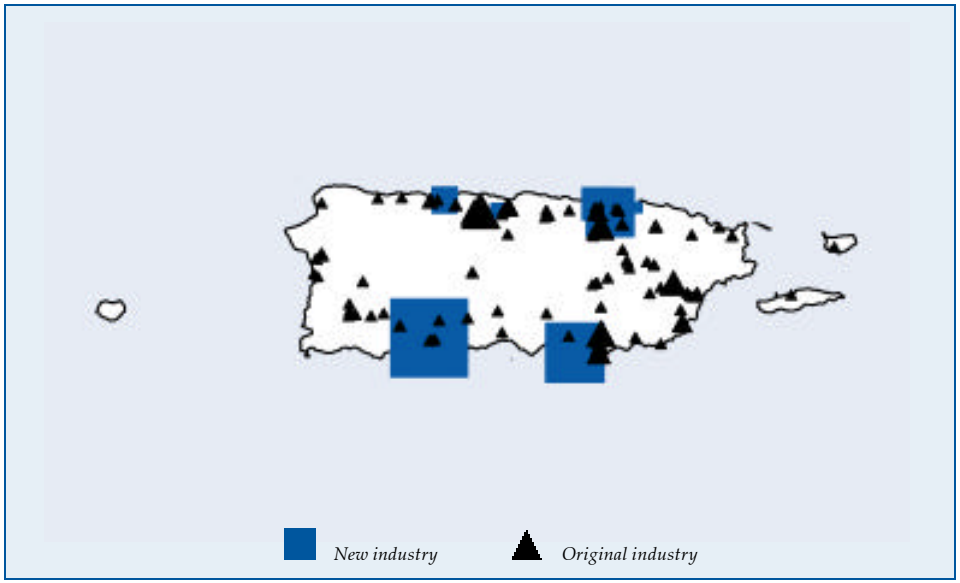

The largest marker in the state map represents the largest facility for on-site releases in Puerto Rico. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

State/TRI Data

Population	3,860,091
Square Miles	3,427
Total Facilities	166
Total Forms	529
Form As	79

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	40	40	43
Pounds	7,286,803	10,658,776	17,945,579
National Rank for Total On-site Releases**			
Rank	39	38	42
Pounds	6,643,152	10,395,073	17,038,225
National Rank for Total Releases within State***			
Rank	40	39	43
Pounds	7,251,423	10,598,933	17,850,356
National Rank for Production-related Waste Managed			
Rank	38	32	41
Pounds	73,305,157	27,140,180	100,445,337

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

PUERTO RICO

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
75-09-2	Dichloromethane	2,243,405	0	0	0	5	2,243,410	0	0	5
67-56-1	Methanol	1,225,874	110,299	0	1,428	583	1,338,184	0	8	575
108-88-3	Toluene	1,066,235	12	0	0	110	1,066,357	0	20	90
78-93-3	Methyl ethyl ketone	251,531	0	0	0	0	251,531	0	0	0
—	Zinc compounds	556	600	0	1,261	224,746	227,163	0	224,746	0
67-66-3	Chloroform	181,242	0	0	0	0	181,242	0	0	0
—	Nitrate compounds	0	0	0	18	155,000	155,018	0	155,000	0
71-36-3	n-Butyl alcohol	136,843	0	0	0	0	136,843	0	0	0
110-54-3	n-Hexane	135,139	9	0	0	0	135,148	0	0	0
110-82-7	Cyclohexane	133,812	0	0	0	75	133,887	0	5	70

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	8,920,291	0	0	0	0	8,920,291	0	0	0
7664-41-7	Ammonia	781,583	0	0	0	0	781,583	0	0	0
—	Nickel compounds	128,913	31,940	0	150,969	199,533	511,355	0	199,533	0
75-09-2	Dichloromethane	198,077	0	0	0	7,550	205,627	0	0	7,550
7440-66-6	Zinc (fume or dust)	27,553	30,183	0	3,772	3,772	65,280	0	3,772	0
67-56-1	Methanol	19,469	0	0	0	21,890	41,359	0	0	21,890
1330-20-7	Xylene (mixed isomers)	19,467	0	0	0	15,657	35,124	0	255	15,402
75-21-8	Ethylene oxide	30,000	0	0	0	0	30,000	0	0	0
75-05-8	Acetonitrile	1,348	0	0	0	22,812	24,160	0	0	22,812
7664-38-2	Phosphoric acid	1,456	10,789	0	0	0	12,245	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

PUERTO RICO

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Abbott Health Prods. Inc., Barceloneta, Barceloneta	1,136,763	0	0	0	0	0	1,136,763	0	0
Chemsource Corp., Guayama, Guayama	739,100	0	0	0	0	0	739,100	0	15
Coatings Inc. & Co., Bayamon, Bayamon	680,386	0	0	0	0	0	680,386	0	0
Pharmacia & Upjohn Caribe Inc., Arecibo, Arecibo	677,392	0	0	0	0	0	677,392	0	0
Schering-Plough Prods. L.L.C., Las Piedras, Las Piedras	657,287	0	0	0	0	0	657,287	0	0
Phillips Puerto Rico Core Inc., Guayama, Guayama	496,898	67	0	0	0	0	496,965	75	0
Puerto Rico Sun Oil Co., Yabucoa, Yabucoa	355,850	17,966	0	0	0	0	373,816	0	364
Schering-Plough Prods. Inc., Manati, Manati	278,090	0	0	0	0	0	278,090	0	0
Merck Sharp & Dohme Quimica of PR Inc., Barceloneta, Barceloneta	146,923	0	0	0	0	0	146,923	0	0
Baxter Healthcare Corp. of PR, Añasco, Añasco	138,396	0	0	0	0	0	138,396	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
PREPA — South Coast Power Plant, Guayanilla, Guayanilla	3,426,160	30,678	0	0	0	49,058	3,505,896	49,058	0
PREPA — Aguirre Power Generation Complex, Salinas, Salinas	2,446,162	30,854	0	0	0	58,220	2,535,236	58,220	0
PREPA — San Juan Steam Power Plant, Puerto Nuevo, San Juan	1,959,243	299	0	0	0	26,949	1,986,491	54,998	0
PREPA — Palo Seco Power Plant, Levittown, Toa Baja	1,151,059	292	0	0	0	20,514	1,171,865	41,029	0
PREPA — Cambalache Combustion Turbine Plant, Arecibo, Arecibo	874,454	0	0	0	0	0	874,454	0	0
Safety-Kleen Envirosystem Co. of Puerto Rico Inc., Manati, Manati	234,929	0	0	0	0	0	234,929	0	67,654
Steri-Tech Inc., Salinas, Salinas	30,000	0	0	0	0	0	30,000	0	0
Union Carbide Caribe L.L.C., Penuelas, Penuelas	13,851	10,789	0	0	0	0	24,640	0	0
Ochoa Indl. Sales Corp., Cataño, San Juan	9,766	0	0	0	0	0	9,766	0	0
Esso Cataqo Bulk Terminal, Guaynabo, Guaynabo	9,229	0	0	0	0	0	9,229	540	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

PUERTO RICO

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Abbott Health Prods. Inc., Barceloneta, Barceloneta	7,958,020	0	0	2,670,177	4,798,364	309,610	1,146,591	16,882,762	0
Pharmacia & Upjohn Caribe Inc., Arecibo, Arecibo	0	3,195,000	0	2,176,436	0	1,971,561	900,780	8,243,777	840
Chemsource Corp., Guayama, Guayama	480,987	233,915	0	0	558,022	83,901	739,100	2,095,925	9
Coatings Inc. & Co., Bayamon, Bayamon	672,505	0	0	0	688,336	22,360	680,386	2,063,587	0
Schering-Plough Prods. L.L.C., Las Piedras, Las Piedras	0	174,650	0	15,856	135,571	115,581	651,986	1,093,644	0
Phillips Puerto Rico Core Inc., Guayama, Guayama	449,565	0	652,043	519	703,871	743	497,040	2,303,781	0
Puerto Rico Sun Oil Co., Yabucoa, Yabucoa	0	0	0	0	147,350	8,620	373,616	529,586	0
Schering-Plough Prods. Inc., Manati, Manati	0	473,700	0	1,149,110	0	1,015,020	278,090	2,915,920	0
Harvey Hubbell Caribe Inc., Bayamon, Bayamon	0	0	0	0	0	0	209,892	209,892	2
Caribe GE ED&C / Plating Inc., Arecibo, Arecibo	0	317,560	0	0	87,346	15,137	208,788	628,831	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
PREPA South Coast Power Plant, Guayanilla, Guayanilla	0	0	0	0	0	0	3,554,940	3,554,940	0
PREPA — Aguirre Power Generation Complex, Salinas, Salinas	0	0	0	0	0	0	2,593,451	2,593,451	0
PREPA San Juan Steam Power Plant, Puerto Nuevo, San Juan	0	0	0	0	0	0	2,041,484	2,041,484	2
PREPA — Palo Seco Power Plant, Levittown, Toa Baja	0	0	0	0	0	0	1,212,889	1,212,889	0
PREPA Cambalache Combustion Turbine Plant, Arecibo, Arecibo	0	0	0	0	0	0	874,444	874,444	0
Safety-Kleen Envirosystem Co. of Puerto Rico Inc., Manati, Manati	3,860,419	1,875,384	0	8,545,872	89,191	2,068,828	302,578	16,742,272	0
Steri-Tech Inc., Salinas, Salinas	0	0	0	0	25,000	0	30,000	55,000	1
Union Carbide Caribe L.L.C., Penuelas, Penuelas	0	0	0	0	2,979	0	24,635	27,614	4
Esso Cataqo Bulk Terminal, Guaynabo, Guaynabo	0	0	0	0	0	0	8,508	8,508	0
Shell Co. Puerto Rico Ltd., Puerto Nuevo, San Juan	0	0	0	0	0	0	6,213	6,213	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

RHODE ISLAND

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	1,435,319	504,148	1,939,467
Air Emissions	1,433,349	503,787	1,937,136
Surface Water Discharges	1,465	361	1,826
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	505	0	505
Off-site Releases (Transfers Off-site to Disposal)*	297,555	36,509	334,064
Total On- and Off-site Releases	1,732,874	540,657	2,273,531
Recycled On-site	8,516,176	120,974	8,637,150
Recycled Off-site	10,988,271	108,500	11,096,771
Energy Recovery On-site	206,716	0	206,716
Energy Recovery Off-site	794,872	307	795,179
Treated On-site	7,275,506	124,573	7,400,079
Treated Off-site**	499,916	769,780	1,269,696
Quantity Released On- and Off-site***	1,681,961	540,445	2,222,406
Total Production-related Waste Managed	29,963,418	1,664,579	31,627,997
Total Non-production-related Waste Managed	3,085	0	3,085

Transfers Off-site for Further Waste Management/Disposal

Recycling	10,976,911	153,530	11,130,441
Energy Recovery	530,071	307	530,378
Treatment	324,322	725,826	1,050,148
Publicly Owned Treatment Works (POTWs)	364,300	260	364,560
Metals and Metal Compounds*	11,410	10	11,420
Non-metal TRI Chemicals**	352,890	250	353,140
Other Off-site Transfers****	750	0	750
Off-site Transfers to Disposal *(not including metals to POTWs)*	304,651	36,646	341,297
Total Transfers Off-site for Further Waste Management/Disposal	12,501,005	916,569	13,417,574

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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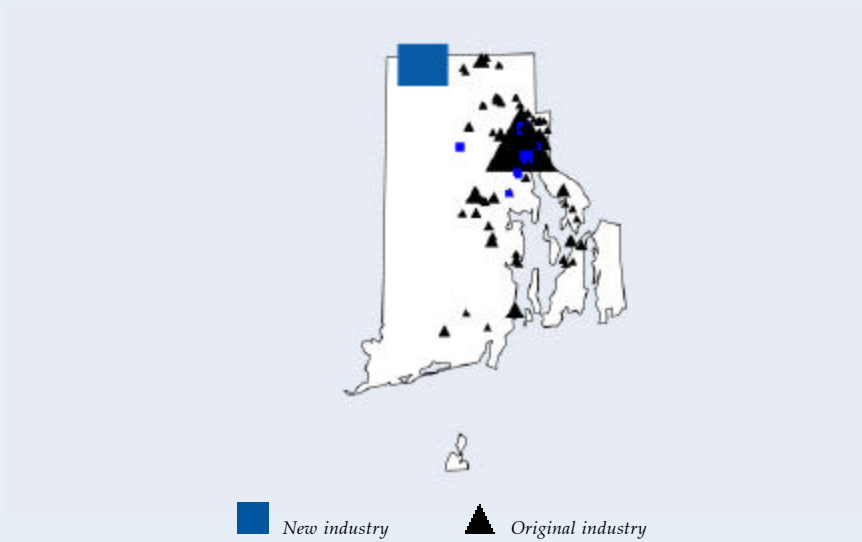

The largest marker in the state map represents the largest facility for on-site releases in the state of Rhode Island. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	988,480
Square Miles	1,045
Total Facilities	143
Total Forms	365
Form As	71

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	49	49	50
Pounds	1,732,874	540,657	2,273,531
National Rank for Total On-site Releases**			
Rank	49	49	50
Pounds	1,435,319	504,148	1,939,467
National Rank for Total Releases within State***			
Rank	49	49	50
Pounds	1,809,518	506,720	2,316,238
National Rank for Production-related Waste Managed			
Rank	44	49	47
Pounds	29,963,418	1,664,579	31,627,997

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

RHODE ISLAND

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
108-88-3	Toluene	518,767	1	0	0	2,950	521,718	3,735	0	2,950
78-93-3	Methyl ethyl ketone	311,987	0	0	0	14,352	326,339	3,196	0	14,352
7664-41-7	Ammonia	116,219	255	0	0	0	116,474	74	0	0
100-42-5	Styrene	115,141	0	0	0	0	115,141	0	0	0
1330-20-7	Xylene (mixed isomers)	106,307	0	0	0	0	106,307	1,574	0	0
—	Zinc compounds	188	22	0	0	76,270	76,480	10,241	12,199	64,071
—	Glycol ethers	75,462	0	0	0	0	75,462	8,940	0	0
—	Lead compounds	97	44	0	500	40,532	41,173	3,500	6,987	33,545
—	Manganese compounds	88	36	0	0	40,738	40,862	38,000	32,138	8,600
67-56-1	Methanol	36,071	655	0	0	64	36,790	4,166	64	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	455,002	5	0	0	0	455,007	0	0	0
1634-04-4	Methyl tert-butyl ether	34,207	294	0	0	11,210	45,711	250	0	11,210
108-88-3	Toluene	3,947	15	0	0	9,712	13,674	291	0	9,712
1330-20-7	Xylene (mixed isomers)	2,054	16	0	0	6,909	8,979	250	0	6,909
110-54-3	n-Hexane	4,313	6	0	0	3,205	7,524	280	0	3,205
71-43-2	Benzene	2,319	10	0	0	1,254	3,583	5	0	1,254
100-41-4	Ethylbenzene	520	8	0	0	2,100	2,628	5	0	2,100
95-63-6	1,2,4-Trimethylbenzene	102	2	0	0	994	1,098	30	0	994
91-20-3	Naphthalene	500	5	0	0	250	755	0	0	250
—	Zinc compounds	10	0	0	0	505	515	0	5	500

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

RHODE ISLAND

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Quebecor Printing Providence Inc., Providence, Providence	420,934	25	0	0	0	0	420,959	68	312
Rexam DSI, Johnston, Providence	165,514	0	0	0	0	0	165,514	0	0
Osram Sylvania Prods. Inc., Central Falls, Providence	100,315	54	0	0	0	0	100,369	3,736	16,650
Arkwright Inc., Fiskeville, Kent	71,605	0	0	0	0	0	71,605	0	0
Facile Holdings Inc., Rumford, Providence	67,404	0	0	0	0	0	67,404	0	0
Dewal Ind. Inc., Narragansett, Washington	66,980	0	0	0	0	0	66,980	0	0
Tech. Inds. Inc., Woonsocket, Providence	57,632	0	0	0	0	0	57,632	0	0
TPI Composites Inc., Warren, Bristol	41,540	0	0	0	0	0	41,540	0	0
Stanley Fastening Sys. Inc., East Greenwich, Kent	40,203	0	0	0	0	0	40,203	0	0
BICC General Inds. Inc., Lincoln, Providence	39,460	0	0	0	0	0	39,460	5,466	160

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Ocean State Power, Harrisville, Providence	366,400	0	0	0	0	0	366,400	0	0
Pawtucket Power Associates, Pawtucket, Providence	45,597	0	0	0	0	0	45,597	0	0
USGen New England Inc., Providence, Providence	43,005	5	0	0	0	0	43,010	0	0
Motiva Providence Terminal, Providence, Providence	25,239	318	0	0	0	0	25,557	0	7,434
Mobil Oil East Providence Terminal, East Providence, Providence	18,881	30	0	0	0	0	18,911	0	27,591
Getty Terminals Corp., East Providence, Providence	3,493	3	0	0	0	0	3,496	0	371
Northeast Petroleum Providence Terminal, Providence, Providence	500	5	0	0	0	0	505	0	250
Chem-Pak Inc., Cranston, Providence	402	0	0	0	0	0	402	0	0
John R. Hess & Co. Inc., Cranston, Providence	250	0	0	0	0	0	250	0	0
21 EMI RI, Warwick, Kent	20	0	0	0	0	0	20	10	1,000

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

RHODE ISLAND

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Quebecor Printing Providence Inc., Providence, Providence	2,808,433	7,673	0	1,968	0	68	420,934	3,239,076	0
Rexam DSI, Johnston, Providence	0	0	0	6,185	973	973	165,514	173,645	0
Osram Sylvania Prods. Inc., Central Falls, Providence	441,700	19,500	0	0	773,500	173,100	104,100	1,511,900	0
Arkwright Inc., Fiskeville, Kent	0	0	0	280,500	2,360,000	1,906	71,000	2,713,406	0
Facile Holdings Inc., Rumford, Providence	0	0	0	6,513	0	0	67,404	73,917	0
Dewal Ind. Inc., Narragansett, Washington	0	0	0	2,700	0	0	67,000	69,700	0
Tech. Inds. Inc., Woonsocket, Providence	0	0	0	0	0	0	57,632	57,632	0
Stanley-Bostitch Inc., North Kingstown, Washington	0	0	0	0	49,457	66,513	57,026	172,996	0
BICC General Inds. Inc., Lincoln, Providence	2,060	1,040	0	0	0	0	44,402	47,502	0
GE Providence Base Plant, Providence, Providence	0	41,460	0	0	0	0	43,500	84,960	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Ocean State Power, Harrisville, Providence	0	0	0	0	0	0	366,400	366,400	0
Mobil Oil East Providence Terminal, East Providence, Providence	0	0	0	0	0	0	46,537	46,537	0
Pawtucket Power Associates, Pawtucket, Providence	0	0	0	0	0	0	45,597	45,597	0
USGen New England Inc., Providence, Providence	0	0	0	0	0	12	43,000	43,012	0
Motiva Providence Terminal, Providence, Providence	0	0	0	0	0	763	33,754	34,517	0
Getty Terminals Corp., East Providence, Providence	0	0	0	307	124,573	49	3,871	128,800	0
21 EMI RI, Warwick, Kent	0	108,500	0	0	0	0	444	108,944	0
Chem-Pak Inc., Cranston, Providence	120,974	0	0	0	0	768,783	402	890,159	0
John R. Hess & Co. Inc., Cranston, Providence	0	0	0	0	0	0	400	400	0
Northeast Petroleum Providence Terminal, Providence, Providence	0	0	0	0	0	173	40	213	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

SOUTH CAROLINA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	48,644,586	44,357,654	93,002,240
Air Emissions	43,284,655	13,821,268	57,105,923
Surface Water Discharges	3,343,152	8,486	3,351,638
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	35,750	5,145,517	5,181,267
Other On-site Land Releases	1,981,029	25,382,383	27,363,412
Off-site Releases (Transfers Off-site to Disposal)*	5,257,672	9,040,516	14,298,188
Total On- and Off-site Releases	53,902,258	53,398,170	107,300,428
Recycled On-site	461,741,175	3,949,483	465,690,658
Recycled Off-site	54,051,753	2,014,448	56,066,201
Energy Recovery On-site	73,648,246	0	73,648,246
Energy Recovery Off-site	14,236,094	25,186,727	39,422,821
Treated On-site	108,285,284	18,716,484	127,001,768
Treated Off-site**	14,812,906	1,388,505	16,201,411
Quantity Released On- and Off-site***	59,871,574	53,624,845	113,496,419
Total Production-related Waste Managed	786,647,032	104,880,492	891,527,524
Total Non-production-related Waste Managed	92,491	84	92,575

Transfers Off-site for Further Waste Management/Disposal

Recycling	47,985,282	214,200	48,199,482
Energy Recovery	13,369,028	25,194,140	38,563,168
Treatment	10,004,969	2,034,709	12,039,678
Publicly Owned Treatment Works (POTWs)	5,286,704	4,117	5,290,821
Metals and Metal Compounds*	43,438	5	43,443
Non-metal TRI Chemicals**	5,243,266	4,112	5,247,378
Other Off-site Transfers****	30,430	0	30,430
Off-site Transfers to Disposal *(not including metals to POTWs)*	11,007,592	9,051,009	20,058,601
Total Transfers Off-site for Further Waste Management/Disposal	87,684,005	36,498,175	124,182,180

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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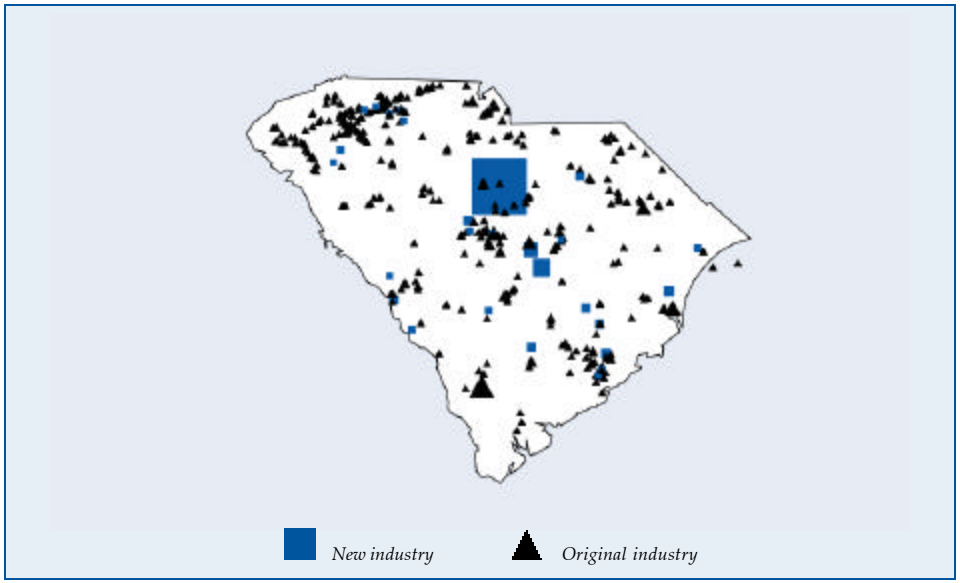

The largest marker in the state map represents the largest facility for on-site releases in the state of South Carolina. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	3,835,962
Square Miles	30,111
Total Facilities	509
Total Forms	2,140
Form As	291

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	18	20	20
Pounds	53,902,258	53,398,170	107,300,428
National Rank for Total On-site Releases**			
Rank	17	21	23
Pounds	48,644,586	44,357,654	93,002,240
National Rank for Total Releases within State***			
Rank	17	20	20
Pounds	54,181,824	53,024,915	107,206,739
National Rank for Production-related Waste Managed			
Rank	10	13	13
Pounds	786,647,032	104,880,492	891,527,524

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

SOUTH CAROLINA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	14,225,053	221,733	0	122,305	12,667	14,581,758	28,191	9,768	2,947
—	Zinc compounds	33,269	129,213	0	239,199	4,865,529	5,267,210	188,460	643,814	4,296,916
108-88-3	Toluene	5,257,937	300	0	483	3,718	5,262,438	215,309	3,159	572
7664-41-7	Ammonia	2,615,002	181,535	0	79,185	46,155	2,921,877	3,612	46,079	76
—	Nitrate compounds	1,031	2,239,949	0	97,121	62	2,338,163	6	62	0
—	Manganese compounds	18,077	280,749	0	619,005	1,049,316	1,967,147	187,976	405,781	649,771
7647-01-0	Hydrochloric acid	1,964,221	0	0	0	0	1,964,221	0	0	0
75-09-2	Dichloromethane	1,928,135	1,050	0	2,000	0	1,931,185	10,257	0	0
108-95-2	Phenol	1,736,440	2,701	0	11,335	2,945	1,753,421	102	2,036	909
78-93-3	Methyl ethyl ketone	1,290,435	998	0	23,143	28,023	1,342,599	9,726	25,023	3,000

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	10,885,443	0	0	0	0	10,885,443	0	0	0
—	Manganese compounds	43	0	0	10,548,021	20	10,548,084	10	20	0
107-21-1	Ethylene glycol	488	0	0	1,493	8,588,933	8,590,914	0	8,583,334	5,599
—	Barium compounds	913	1,200	0	7,315,805	2,940	7,320,858	1,042	135	2,805
7664-93-9	Sulfuric acid	1,846,531	0	0	64,304	0	1,910,835	0	0	0
8001-58-9	Creosote	553	0	0	1,564,017	0	1,564,570	0	0	0
—	Chromium compounds	21	0	0	1,537,300	1,129	1,538,450	4,626	0	1,129
—	Arsenic compounds	905	5	0	1,213,600	166	1,214,676	900	0	166
—	Zinc compounds	54	0	0	1,074,012	2,170	1,076,236	1,793	3	2,167
—	Cyanide compounds	24,019	0	0	1,000,000	0	1,024,019	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

SOUTH CAROLINA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
International Paper, Hampton, Hampton	6,242,529	228	0	0	0	0	6,242,757	0	319
International Paper, Georgetown Mill, Georgetown, Georgetown	2,999,946	178,580	0	0	0	0	3,178,526	230,700	0
Intertape Polymer Group Anchor, Columbia, Richland	3,016,069	0	0	0	0	0	3,016,069	814	0
Westvaco Corp. Kraft Div., North Charleston, Charleston	2,653,749	52,381	0	0	0	0	2,706,130	127,623	0
Stone Container Corp., Florence, Florence	2,189,104	32,355	0	0	0	317,212	2,538,671	0	0
International Paper, Eastover, Richland	1,580,865	407,750	0	0	0	455,900	2,444,515	0	0
Bowater Inc. Coated Paper & Pulp Div., Catawba, York	1,130,265	311,985	0	0	0	168,516	1,610,766	0	0
Albemarle Corp., Orangeburg, Orangeburg	1,002,568	231,748	0	0	0	340,910	1,575,226	0	0
Eastman Chemical Co., Carolina Eastman Div., Cayce-West Columbia, Lexington	1,408,841	22,279	0	0	0	34,900	1,466,020	0	0
Devro-Teepak Inc., Swansea, Calhoun	1,100,000	185,000	0	0	0	0	1,285,000	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Kennecott Ridgeway Mining Co., Ridgeway, Fairfield	24,000	0	0	0	0	22,993,000	23,017,000	0	0
Safety-Kleen (Pinewood), Pinewood, Sumter	1,628	0	0	0	5,145,517	2	5,147,147	0	0
South Carolina Electric & Gas Co. — Wateree Station, Eastover, Richland	3,372,330	0	0	0	0	530,311	3,902,641	690	0
Winyah Generating Station, Georgetown, Georgetown	1,651,476	5	0	0	0	207,100	1,858,581	0	0
McMeekin Station — South Carolina Electric & Gas Co., Columbia, Lexington	1,315,420	0	0	0	0	93,035	1,408,455	0	0
Williams Station — Genco, Goose Creek, Berkeley	1,402,829	0	0	0	0	0	1,402,829	19,696	41
Canadys Station South Carolina Electric & Gas Co., Canadys, Colleton	1,157,878	324	0	0	0	174,689	1,332,891	0	0
Cross Generating Station, Pineville, Berkeley	478,982	0	0	0	0	723,100	1,202,082	0	0
Jefferies Generating Station, Moncks Corner, Berkeley	1,091,000	0	0	0	0	0	1,091,000	0	0
H.B. Robinson Steam Electric Plt., Hartsville, Darlington	978,560	0	0	0	0	110,000	1,088,560	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

SOUTH CAROLINA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
International Paper, Hampton, Hampton	7,665	0	0	42,445	0	82,749	6,243,086	6,375,945	0
Nucor Steel, Huger, Berkeley	0	144,833	0	0	0	0	5,182,524	5,327,357	0
International Paper, Georgetown Mill, Georgetown, Georgetown	0	0	0	0	8,753,578	0	3,440,779	12,194,357	0
Intertape Polymer Group Anchor, Columbia, Richland	15,742,634	0	0	102,929	790,000	540	3,016,075	19,652,178	0
Westvaco Corp. Kraft Div., North Charleston, Charleston	0	0	5,703,140	1,100	5,340,480	0	2,815,760	13,860,480	0
Stone Container Corp., Florence, Florence	0	0	721,862	0	4,479,825	0	2,538,671	7,740,358	0
International Paper, Eastover, Richland	0	0	571,730	0	5,632,700	0	2,429,080	8,633,510	0
Nucor Steel, Darlington, Darlington	0	5,462,822	0	0	0	0	2,046,886	7,509,708	0
Albemarle Corp., Orangeburg, Orangeburg	54,300,000	0	1,778,000	981,000	9,219,000	391,000	1,562,820	68,231,820	0
Bowater Inc. Coated Paper & Pulp Div., Catawba, York	0	0	156,003	0	16,958,528	0	1,535,751	18,650,282	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Kennecott Ridgeway Mining Co., Ridgeway, Fairfield	0	0	0	0	0	0	22,680,000	22,680,000	0
Southeastern Chemical & Solvent Co. Inc., Sumter, Sumter	3,030,569	1,800,700	0	24,592,151	0	920,408	9,500,816	39,844,644	0
Safety-Kleen (Pinewood), Pinewood, Sumter	0	0	0	0	0	587	5,147,195	5,147,782	0
South Carolina Electric & Gas Co. — Wateree Station, Eastover, Richland	0	0	0	0	0	0	3,903,331	3,903,331	0
Winyah Generating Station, Georgetown, Georgetown	0	0	0	0	1,275,500	0	1,888,576	3,164,076	0
Williams Station — Genco, Goose Creek, Berkeley	0	0	0	0	0	0	1,422,566	1,422,566	0
McMeekin Station — South Carolina Electric & Gas Co., Columbia, Lexington	0	0	0	0	0	0	1,408,454	1,408,454	0
Canadys Station South Carolina Electric & Gas Co., Canadys, Colleton	0	0	0	0	0	0	1,332,892	1,332,892	0
Cross Generating Station, Pineville, Berkeley	0	0	0	0	4,651,100	0	1,202,082	5,853,182	0
Jefferies Generating Station, Moncks Corner, Berkeley	0	0	0	0	313,900	0	1,091,000	1,404,900	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

SOUTH DAKOTA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	3,136,308	18,962,496	22,098,804
Air Emissions	2,314,440	275,340	2,589,780
Surface Water Discharges	808,061	210,651	1,018,712
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	13,807	18,476,505	18,490,312
Off-site Releases (Transfers Off-site to Disposal)*	114,923	97,005	211,928
Total On- and Off-site Releases	3,251,231	19,059,501	22,310,732
Recycled On-site	479,727	542,954	1,022,681
Recycled Off-site	899,786	52,000	951,786
Energy Recovery On-site	1,092,000	0	1,092,000
Energy Recovery Off-site	209,283	0	209,283
Treated On-site	1,891,554	4,179,746	6,071,300
Treated Off-site**	1,267,051	3	1,267,054
Quantity Released On- and Off-site***	3,198,539	19,031,696	22,230,235
Total Production-related Waste Managed	9,037,940	23,806,399	32,844,339
Total Non-production-related Waste Managed	371	7	378

Transfers Off-site for Further Waste Management/Disposal

Recycling	1,023,959	52,000	1,075,959
Energy Recovery	70,440	0	70,440
Treatment	265,788	0	265,788
Publicly Owned Treatment Works (POTWs)	1,128,451	0	1,128,451
Metals and Metal Compounds*	1,317	0	1,317
Non-metal TRI Chemicals**	1,127,134	0	1,127,134
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	113,606	97,005	210,611
Total Transfers Off-site for Further Waste Management/Disposal	2,602,244	149,005	2,751,249

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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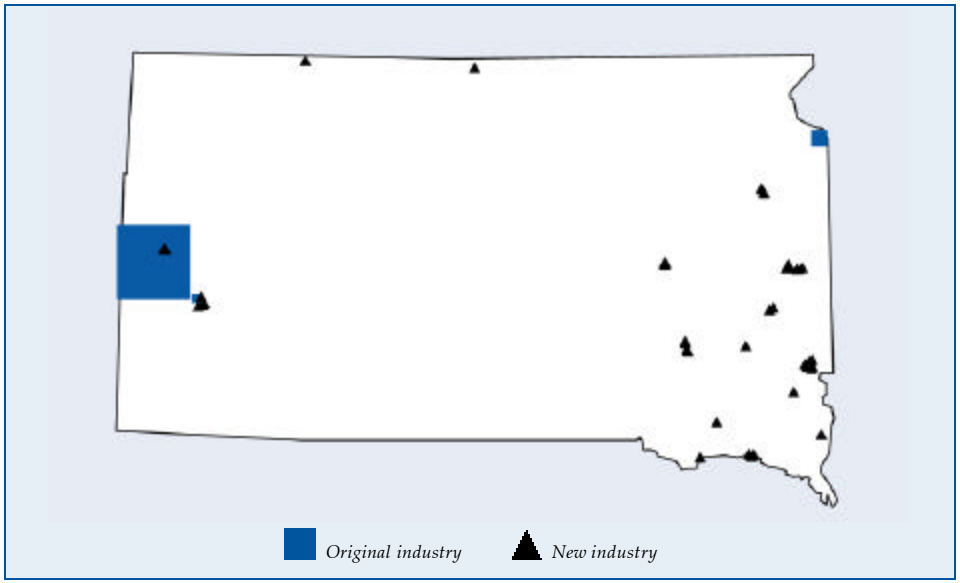
To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of South Dakota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	738,171
Square Miles	75,896
Total Facilities	70
Total Forms	179
Form As	20

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	45	30	41
Pounds	3,251,231	19,059,501	22,310,732
National Rank for Total On-site Releases**			
Rank	45	29	39
Pounds	3,136,308	18,962,496	22,098,804
National Rank for Total Releases within State***			
Rank	45	30	41
Pounds	3,250,725	19,059,486	22,310,211
National Rank for Production-related Waste Managed			
Rank	48	33	46
Pounds	9,037,940	23,806,399	32,844,339

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

SOUTH DAKOTA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
110-54-3	n-Hexane	960,822	0	0	0	0	960,822	0	0	0
—	Nitrate compounds	0	807,639	0	0	30	807,669	0	30	0
1330-20-7	Xylene (mixed isomers)	576,522	0	0	2,317	755	579,594	0	755	0
108-88-3	Toluene	175,555	0	0	6,951	410	182,916	0	410	0
7664-41-7	Ammonia	152,321	242	0	0	4,054	156,617	0	4,054	0
100-42-5	Styrene	155,121	0	0	0	0	155,121	0	0	0
110-82-7	Cyclohexane	52,250	0	0	0	0	52,250	0	0	0
—	Zinc compounds	15	0	0	0	52,125	52,140	0	51,845	280
—	Glycol ethers	49,050	0	0	0	0	49,050	0	0	0
78-93-3	Methyl ethyl ketone	43,069	0	0	0	0	43,069	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7440-38-2	Arsenic	4,094	307	0	9,896,218	0	9,900,619	0	0	0
—	Manganese compounds	1,674	235	0	6,298,331	1,500	6,301,740	0	1,500	0
—	Zinc compounds	695	0	0	830,000	14,000	844,695	0	14,000	0
—	Barium compounds	4,446	56	0	640,000	81,090	725,592	0	81,090	0
—	Copper compounds	164	235	0	657,176	400	657,975	0	400	0
—	Nitrate compounds	0	206,821	0	66,773	5	273,599	0	0	5
7664-39-3	Hydrogen fluoride	93,000	0	0	0	0	93,000	0	0	0
7647-01-0	Hydrochloric acid	50,037	0	0	0	0	50,037	0	0	0
7440-47-3	Chromium	5	5	0	41,000	0	41,010	0	0	0
74-90-8	Hydrogen cyanide	38,079	0	0	0	0	38,079	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

SOUTH DAKOTA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
John Morrell & Co., Sioux Falls, Minnehaha	165,916	807,881	0	0	0	0	973,797	4,084	226
South Dakota Soybean Processors, Volga, Brookings	933,572	0	0	0	0	0	933,572	0	0
3M Health Care Brookings, Brookings, Brookings	292,380	0	0	0	0	0	292,380	0	0
Raven Inds. Inc., Sioux Falls, Minnehaha	146,375	0	0	0	0	0	146,375	0	0
Alcoa Extrusions Inc., Yankton, Yankton	123,987	0	0	0	0	0	123,987	0	0
Starmark Inc., Sioux Falls, Minnehaha	109,250	0	0	0	0	0	109,250	0	0
Feterl Mfg. Co., Salem, Mc Cook	62,981	0	0	0	0	0	62,981	0	0
Kolbert-Pioneer Inc., Yankton, Yankton	33,433	0	0	0	0	13,557	46,990	0	0
CR Ind. of Springfield, Springfield, Bon Homme	44,070	0	0	0	0	0	44,070	2,203	0
UDI Trussbilt, Huron, Beadle	40,458	0	0	0	0	0	40,458	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Homestake Mine, Lead, Lawrence	68,603	207,075	0	0	0	16,424,495	16,700,173	0	0
Big Stone Plant, Big Stone City, Grant	176,149	0	0	0	0	1,625,000	1,801,149	23,200	0
Wharf Resources (U.S.A.) Inc., Lead, Lawrence	17,005	3,520	0	0	0	427,010	447,535	0	15
BHPL — Ben French Power Plant, Rapid City, Pennington	13,583	56	0	0	0	0	13,639	73,790	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

SOUTH DAKOTA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
John Morrell & Co., Sioux Falls, Minnehaha	0	0	0	0	247,092	11,700	974,505	1,233,297	226
South Dakota Soybean Processors, Volga, Brookings	0	0	0	0	0	0	933,572	933,572	0
3M Health Care Brookings, Brookings, Brookings	0	4,620	1,092,000	18,410	360,000	131,100	290,800	1,896,930	0
Raven Inds. Inc., Sioux Falls, Minnehaha	0	0	0	2,400	0	0	146,000	148,400	0
Alcoa Extrusions Inc., Yankton, Yankton	0	5,600	0	119,600	334,800	600	122,240	582,840	0
Starmark Inc., Sioux Falls, Minnehaha	0	0	0	18,404	0	0	109,250	127,654	0
Feterl Mfg. Co., Salem, Mc Cook	0	6,200	0	0	0	0	62,952	69,152	0
Minnesota Rubber Co., Watertown, Codington	0	0	0	0	0	0	49,392	49,392	0
CR Ind. of Springfield, Springfield, Bon Homme	0	7,653	0	10,929	15,736	0	45,791	80,109	0
UDI Trussbilt, Huron, Beadle	0	12,700	0	0	0	0	40,458	53,158	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Homestake Mine, Lead, Lawrence	542,954	0	0	0	3,064,554	0	16,692,174	20,299,682	7
Big Stone Plant, Big Stone City, Grant	0	0	0	0	256,000	0	1,809,000	2,065,000	0
Wharf Resources (U.S.A.) Inc., Lead, Lawrence	0	52,000	0	0	833,000	3	443,440	1,328,443	0
BHPL — Ben French Power Plant, Rapid City, Pennington	0	0	0	0	26,192	0	87,082	113,274	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

TENNESSEE

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	87,118,682	45,625,408	132,744,090
Air Emissions	77,905,764	26,915,720	104,821,484
Surface Water Discharges	1,442,948	355,027	1,797,975
Underground Injection Class I Wells	3,816,300	0	3,816,300
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	137,682	54	137,736
Other On-site Land Releases	3,815,988	18,354,607	22,170,595
Off-site Releases (Transfers Off-site to Disposal)*	5,988,765	579,794	6,568,559
Total On- and Off-site Releases	93,107,447	46,205,202	139,312,649
Recycled On-site	213,074,975	8,005,410	221,080,385
Recycled Off-site	69,924,557	1,046,149	70,970,706
Energy Recovery On-site	89,442,272	122,783	89,565,055
Energy Recovery Off-site	4,868,429	3,735,732	8,604,161
Treated On-site	89,279,362	27,821,546	117,100,908
Treated Off-site**	10,284,402	11,487	10,295,889
Quantity Released On- and Off-site***	94,201,404	46,169,489	140,370,893
Total Production-related Waste Managed	571,075,401	86,912,596	657,987,997
Total Non-production-related Waste Managed	746,569	3,331	749,900

Transfers Off-site for Further Waste Management/Disposal

Recycling	65,960,666	954,998	66,915,664
Energy Recovery	4,798,137	3,733,800	8,531,937
Treatment	3,563,118	18,149	3,581,267
Publicly Owned Treatment Works (POTWs)	5,625,212	8,354	5,633,566
Metals and Metal Compounds*	49,617	250	49,867
Non-metal TRI Chemicals**	5,575,595	8,104	5,583,699
Other Off-site Transfers****	8,370	740	9,110
Off-site Transfers to Disposal *(not including metals to POTWs)*	7,739,250	579,545	8,318,795
Total Transfers Off-site for Further Waste Management/Disposal	87,694,753	5,295,586	92,990,339

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*

*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*

**** *Transfers reported without a valid waste management code.*

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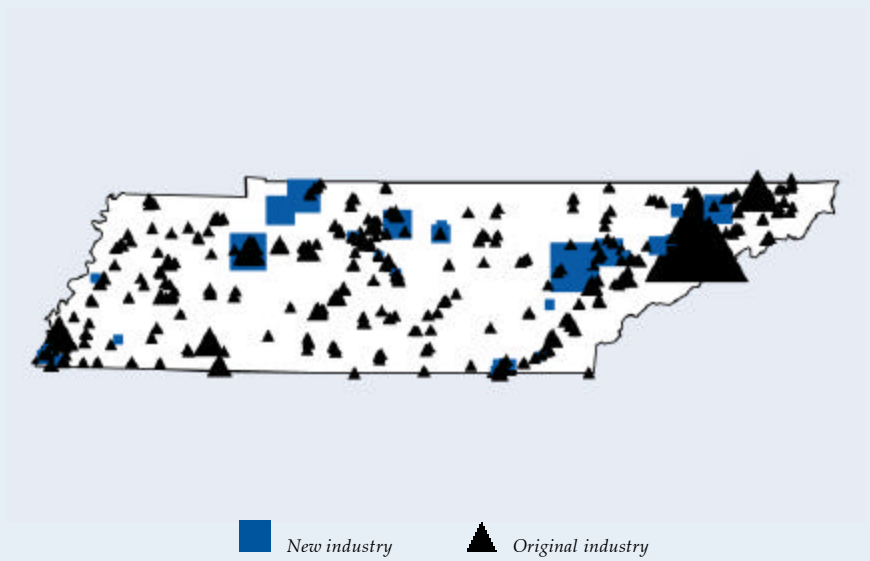

The largest marker in the state map represents the largest facility for on-site releases in the state of Tennessee. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	5,430,621
Square Miles	41,220
Total Facilities	691
Total Forms	2,473
Form As	367

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	8	22	15
Pounds	93,107,447	46,205,202	139,312,649
National Rank for Total On-site Releases**			
Rank	5	20	13
Pounds	87,118,682	45,625,408	132,744,090
National Rank for Total Releases within State***			
Rank	9	22	15
Pounds	92,642,148	46,211,426	138,853,574
National Rank for Production-related Waste Managed			
Rank	14	17	17
Pounds	571,075,401	86,912,596	657,987,997

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*

*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

TENNESSEE

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
75-15-0	Carbon disulfide	20,505,005	171	0	0	0	20,505,176	480	0	0
67-56-1	Methanol	7,799,605	90,854	621,000	17,184	39,180	8,567,823	2,400	27,864	11,316
7664-41-7	Ammonia	6,865,014	413,937	860,000	5,748	383	8,145,082	10,562	333	50
100-42-5	Styrene	7,835,548	0	0	36,294	76,268	7,948,110	10,592	76,268	0
108-88-3	Toluene	7,600,192	304	0	4,544	35,747	7,640,787	1,046	22,551	13,956
—	Manganese compounds	63,270	4,420	2,050,000	2,403,354	677,942	5,198,986	772	376,629	301,313
—	Zinc compounds	311,765	44,545	0	445,698	2,927,469	3,729,477	107,145	1,289,964	1,637,505
7647-01-0	Hydrochloric acid	3,575,385	0	0	0	0	3,575,385	45,240	0	0
1330-20-7	Xylene (mixed isomers)	3,082,751	1,365	0	6,825	5,470	3,096,411	0	1,026	4,444
75-09-2	Dichloromethane	2,731,147	0	0	0	17,200	2,748,347	226	0	17,200

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	19,249,326	0	0	0	0	19,249,326	0	0	0
—	Zinc compounds	65,855	34,788	0	10,605,902	105,895	10,812,440	3,600	105,890	5
7664-93-9	Sulfuric acid	5,932,978	0	0	0	0	5,932,978	0	0	0
—	Barium compounds	15,905	64,300	0	3,257,010	286,205	3,623,420	2,500	286,200	5
7664-39-3	Hydrogen fluoride	1,504,135	0	0	0	0	1,504,135	0	0	0
—	Manganese compounds	7,671	191,400	0	998,836	40,880	1,238,787	0	40,880	0
—	Copper compounds	7,547	10,757	0	925,376	36,760	980,440	0	36,760	0
—	Lead compounds	3,673	3,729	0	789,980	16,800	814,182	170	16,795	5
—	Chromium compounds	3,565	4,650	0	491,200	29,555	528,970	371	29,555	0
—	Nickel compounds	2,515	7,100	0	457,400	28,060	495,075	250	28,060	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

TENNESSEE

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Lenzing Fibers Corp., Lowland, Hamblen	17,365,760	19,964	0	0	0	260,100	17,645,824	0	0
Tennessee Eastman Div., Kingsport, Sullivan	5,415,350	255,041	0	0	99,237	814,000	6,583,628	0	9,575
PCS Nitrogen Fertilizer L.P., Millington, Shelby	5,181,431	2,045	0	0	0	0	5,183,476	1,705	0
Du Pont Johnsonville Plant, New Johnsonville, Humphreys	1,484,850	145,750	2,331,000	0	0	125	3,961,725	0	0
Aguaglass Corp., Adamsville, Mc Nairy	3,787,540	0	0	0	0	36,519	3,824,059	0	0
Packaging Corp. of America, Counce, Hardin	2,452,955	8,110	0	0	0	15,700	2,476,765	0	0
Chemetal Inc., New Johnsonville, Humphreys	72,006	1,050	0	0	0	2,159,750	2,232,806	0	0
Quebecor Printing Inc., Dickson, Dickson	2,166,278	0	0	0	0	0	2,166,278	0	0
Viskase Corp., Loudon, Loudon	1,941,000	0	0	0	0	0	1,941,000	0	0
Du Pont Old Hickory Plant, Old Hickory, Davidson	1,810,440	48,706	0	0	0	0	1,859,146	9	4,609

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
U.S. TVA Kingston Fossil Plant, Harriman, Roane	7,817,950	54,750	0	0	0	1,550,500	9,423,200	20	5
U.S. TVA Johnsonville Fossil Plant, New Johnsonville, Humphreys	5,046,315	116,555	0	0	0	1,321,750	6,484,620	2,010	0
Pasminco Zinc Inc., Clarksville, Montgomery	168,384	8,079	0	0	54	5,500,785	5,677,302	0	0
U.S. TVA Gallatin Fossil Plant, Gallatin, Sumner	3,230,180	34,200	0	0	0	1,236,250	4,500,630	8,850	0
U.S. TVA Cumberland Fossil Plant, Cumberland City, Stewart	2,172,450	38,350	0	0	0	2,274,700	4,485,500	505	0
U.S. TVA John Sevier Fossil Plant, Rogersville, Hawkins	4,044,640	31,000	0	0	0	370,805	4,446,445	535	0
U.S. TVA Bull Run Fossil Plant, Clinton, Anderson	3,935,150	26,300	0	0	0	381,250	4,342,700	359,900	10
Savage Zinc Inc., Gordonsville Mine, Gordonsville, Smith	3,127	3,325	0	0	0	2,066,029	2,072,481	0	0
ASARCO Inc., Young Mine, Strawberry Plains, Jefferson	3,868	114	0	0	0	1,934,128	1,938,110	0	0
U.S. TVA Allen Fossil Plant, Memphis, Shelby	410,530	21,500	0	0	0	659,010	1,091,040	143,230	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

TENNESSEE

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Lenzing Fibers Corp., Lowland, Hamblen	7,364,000	0	0	0	200,000	0	17,482,910	25,046,910	0
Tennessee Eastman Div., Kingsport, Sullivan	540	2,930,260	7,480,928	245,000	27,040,565	1,661,721	6,596,325	45,955,339	1,495
PCS Nitrogen Fertilizer L.P., Millington, Shelby	0	31,700	0	0	41	200,260	5,183,065	5,415,066	6,360
Du Pont Johnsonville Plant, New Johnsonville, Humphreys	0	0	0	0	4,130,000	0	3,968,600	8,098,600	210
Aguaglass Corp., Adamsville, Mc Nairy	0	0	0	28,655	0	0	3,824,059	3,852,714	0
Packaging Corp. of America, Counce, Hardin	0	0	518,500	0	6,507,301	0	2,416,804	9,442,605	0
Chemetal Inc., New Johnsonville, Humphreys	0	0	0	0	0	0	2,199,357	2,199,357	0
Quebecor Printing Inc., Dickson, Dickson	14,405,357	99,069	0	2,510	0	446	2,166,278	16,673,660	0
Viskase Corp., Loudon, Loudon	0	0	0	0	0	46,000	1,900,000	1,946,000	0
Du Pont Old Hickory Plant, Old Hickory, Davidson	0	94,171	3,295,457	0	6,307,831	2,117	1,863,764	11,563,340	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
U.S. TVA Kingston Fossil Plant, Harriman, Roane	0	2,032	0	0	1,800,000	0	9,424,020	11,226,052	0
U.S. TVA Johnsonville Fossil Plant, New Johnsonville, Humphreys	0	685	0	0	3,118,000	0	6,478,020	9,596,705	0
Pasminco Zinc Inc., Clarksville, Montgomery	8,000,000	0	0	0	0	0	5,672,466	13,672,466	8
U.S. TVA Bull Run Fossil Plant, Clinton, Anderson	0	0	0	0	850,000	0	4,699,020	5,549,020	0
U.S. TVA Gallatin Fossil Plant, Gallatin, Sumner	0	3,113	0	0	1,300,000	0	4,497,020	5,800,133	0
U.S. TVA Cumberland Fossil Plant, Cumberland City, Stewart	0	757,000	0	0	17,892,000	0	4,485,120	23,134,120	0
U.S. TVA John Sevier Fossil Plant, Rogersville, Hawkins	0	110,000	0	0	890,000	0	4,449,000	5,449,000	0
Savage Zinc Inc. Gordonsville Mine, Gordonsville, Smith	0	0	0	0	0	0	2,072,481	2,072,481	0
ASARCO Inc. Young Mine, Strawberry Plains, Jefferson	0	0	0	0	0	0	1,938,120	1,938,120	0
U.S. TVA Allen Fossil Plant, Memphis, Shelby	0	20,056	0	0	1,743,000	0	1,235,047	2,998,103	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

TEXAS

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	244,299,677	43,745,514	288,045,191
Air Emissions	110,705,485	8,989,166	119,694,651
Surface Water Discharges	25,158,641	47,956	25,206,597
Underground Injection Class I Wells	88,189,920	3,943,904	92,133,824
Underground Injection Class II-V Wells	8,000	0	8,000
On-site Land Releases to RCRA Subtitle C Landfills	167,524	5,482,518	5,650,042
Other On-site Land Releases	20,070,107	25,281,970	45,352,077
Off-site Releases (Transfers Off-site to Disposal)*	14,858,228	9,336,127	24,194,355
Total On- and Off-site Releases	259,157,905	53,081,641	312,239,546
Recycled On-site	1,118,957,774	23,152,817	1,142,110,591
Recycled Off-site	149,833,364	1,905,919	151,739,283
Energy Recovery On-site	829,307,121	0	829,307,121
Energy Recovery Off-site	87,792,352	31,209,642	119,001,994
Treated On-site	1,455,423,890	57,107,619	1,512,531,509
Treated Off-site**	95,273,974	1,581,304	96,855,278
Quantity Released On- and Off-site***	261,684,178	51,394,055	313,078,233
Total Production-related Waste Managed	3,998,272,653	166,351,356	4,164,624,009
Total Non-production-related Waste Managed	3,361,190	295,108	3,656,298

Transfers Off-site for Further Waste Management/Disposal

Recycling	145,393,314	2,051,892	147,445,206
Energy Recovery	86,880,624	31,348,167	118,228,791
Treatment	37,751,243	1,188,727	38,939,970
Publicly Owned Treatment Works (POTWs)	54,211,206	9,943	54,221,149
Metals and Metal Compounds*	47,851	1,238	49,089
Non-metal TRI Chemicals**	54,163,355	8,705	54,172,060
Other Off-site Transfers****	197,474	0	197,474
Off-site Transfers to Disposal *(not including metals to POTWs)*	18,334,314	11,884,550	30,218,864
Total Transfers Off-site for Further Waste Management/Disposal	342,768,175	46,483,279	389,251,454

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*

*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*

**** *Transfers reported without a valid waste management code.*

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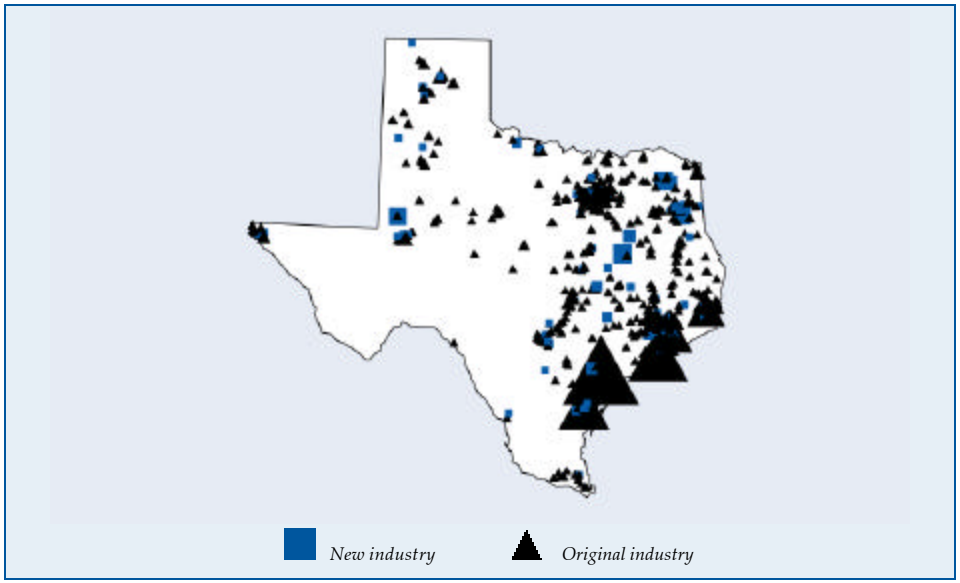

The largest marker in the state map represents the largest facility for on-site releases in the state of Texas. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	19,759,614
Square Miles	261,914
Total Facilities	1,381
Total Forms	7,324
Form As	969

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	1	21	5
Pounds	259,157,905	53,081,641	312,239,546
National Rank for Total On-site Releases**			
Rank	1	22	5
Pounds	244,299,677	43,745,514	288,045,191
National Rank for Total Releases within State***			
Rank	1	21	5
Pounds	261,852,284	52,706,649	314,558,933
National Rank for Production-related Waste Managed			
Rank	1	9	1
Pounds	3,998,272,653	166,351,356	4,164,624,009

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*

*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

TEXAS

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Nitrate compounds	394	23,400,437	14,202,544	1,311	10,127	37,614,813	750	955	9,172
7664-41-7	Ammonia	8,642,508	419,856	16,105,266	194,838	227,359	25,589,827	136,145	379,607	65,090
67-56-1	Methanol	12,476,138	132,879	6,410,899	12,610	584,937	19,617,463	275,325	584,704	4,490
74-85-1	Ethylene	17,233,457	0	4,217	3	342	17,238,019	0	341	1
—	Chromium compounds	14,613	21,135	10,190	15,231,119	1,103,586	16,380,643	18,027	1,290,560	66,005
7697-37-2	Nitric acid	46,602	10	11,907,405	156	212,532	12,166,705	50,260	212,532	0
115-07-1	Propylene	9,207,157	0	2,870	1	114	9,210,142	0	114	0
110-54-3	n-Hexane	7,973,061	1,346	2,675	2,562	49,871	8,029,515	0	48,436	1,435
75-05-8	Acetonitrile	166,772	12,414	5,972,990	19	1,102,220	7,254,415	21,728	1,102,168	52
108-88-3	Toluene	5,034,299	7,004	250,465	16,078	152,786	5,460,632	2,335	146,696	7,324

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Barium compounds	61,720	14,515	250	14,313,321	6,527,220	20,917,026	2,760	6,509,041	18,179
—	Manganese compounds	59,026	3,954	0	6,545,247	1,015,778	7,624,005	104	1,015,778	0
—	Zinc compounds	13,134	671	5	2,617,929	1,522,926	4,154,665	6,189	225,840	1,297,086
7647-01-0	Hydrochloric acid	3,786,163	0	0	0	0	3,786,163	0	0	0
7664-39-3	Hydrogen fluoride	2,388,047	0	0	0	950	2,388,997	241	948	2
—	Lead compounds	2,443	295	5	332,716	1,443,233	1,778,692	7,738	155,675	1,297,085
7664-93-9	Sulfuric acid	1,682,850	0	0	0	0	1,682,850	0	0	0
—	Copper compounds	11,053	7,074	255	1,243,694	357,912	1,619,988	4,006	164,422	202,519
7439-92-1	Lead	1,871	0	11,068	1,292,212	88,750	1,393,901	488	73,983	14,791
77-73-6	Dicyclopentadiene	5	0	1,081,201	0	0	1,081,206	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

TEXAS

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Du Pont Victoria Plant, Victoria, Victoria	450,754	2,942	24,371,111	0	15,116	1,003	24,840,926	134	0
BASF Corp., Freeport, Brazoria	773,562	15,017,755	2,836,174	0	0	0	18,627,491	30,180	0
Elementis Chromium L.P., Corpus Christi, Nueces	89,800	6,250	0	0	0	15,200,000	15,296,050	821,005	0
BP Chemicals Inc., Green Lake Facility, Port Lavaca, Calhoun	151,535	880	12,244,978	0	551	0	12,397,944	6,997	0
Du Pont Beaumont Plant, Beaumont, Jefferson	402,220	1,361	10,373,873	0	0	0	10,777,454	0	21,506
Sterling Chemicals Inc., Texas City, Galveston	771,100	28,333	8,110,787	0	0	0	8,910,220	38,047	196
Solutia — Chocolate Bayou, Alvin, Brazoria	73,329	0	7,044,308	0	4,600	0	7,122,237	0	0
Amoco Petroleum Prods. Refining Business Group, Texas City, Galveston	3,320,030	89,290	2,220,858	0	0	1,065	5,631,243	35,027	1
Dow Chemical Co., Freeport Texas, Freeport, Brazoria	4,217,496	220,880	0	0	55,373	80,919	4,574,668	0	0
Lyondell Chemical Worldwide Inc., Channelview, Harris	525,467	66	3,723,761	0	0	0	4,249,294	334,407	837

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases		Transferred Within State	Transferred Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Limestone Electric Generating Station, Jewett, Limestone	312,471	45	0	0	0	5,182,000	5,494,516	0	0
Martin Lake Steam Electric Station & Lignite, Tatum, Rusk	290,120	320	0	0	0	4,969,900	5,260,340	74	5
Monticello Steam Electric Station & Lignite Mine, Mount Pleasant, Titus	1,380,720	260	0	0	0	3,814,900	5,195,880	21	0
Waste Control Specialist L.L.C., Andrews, Andrews	4,952	0	0	0	4,442,731	0	4,447,683	0	0
Welsh Power Plant, Pittsburg, Camp	1,167,030	9,245	0	0	0	1,669,950	2,846,225	0	0
Big Brown Steam Electric Station & Lignite Mine, Fairfield, Freestone	141,110	20	0	0	0	2,218,600	2,359,730	22	0
Coleto Creek Power Plant, Fannin, Goliad	765,030	440	0	0	0	1,216,400	1,981,870	0	0
H. W. Pirkey Power Plant, Hallsville, Harrison	122,867	12,975	0	0	0	1,672,010	1,807,852	0	0
W.A. Parish Electric Generating Station, Thompson, Fort Bend	566,401	5,065	0	0	0	1,232,200	1,803,666	0	0
Sandow Steam Electric Station, Rockdale, Milam	74,690	0	0	0	0	1,496,690	1,571,380	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

TEXAS

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Du Pont Victoria Plant, Victoria, Victoria	0	0	22,818,450	0	11,312,817	909,592	24,841,060	59,881,919	0
BASF Corp., Freeport, Brazoria	0	421,000	21,043,200	217,980	61,253,300	40,000	18,698,179	101,673,659	147
Elementis Chromium L.P., Corpus Christi, Nueces	0	0	0	0	0	435,000	15,291,800	15,726,800	0
BP Chemicals Inc., Green Lake Facility, Port Lavaca, Calhoun	0	0	50,737,900	0	1,911,116	21,521	12,397,940	65,068,477	11,313
Du Pont Beaumont Plant, Beaumont, Jefferson	1,177,960	0	16,413,061	247,181	14,880,198	2,642,853	10,777,403	46,138,656	25,714
Sterling Chemicals Inc., Texas City, Galveston	130,000	1,097	139,505,891	433	5,083,425	57,668	8,999,897	153,778,411	0
Solutia — Chocolate Bayou, Alvin, Brazoria	760,000	0	0	0	14,869,788	0	7,084,118	22,713,906	0
Amoco Petroleum Prods. Refining Business Group, Texas City, Galveston	2,414,000	243,188	0	0	5,135,000	2,110	5,717,678	13,511,976	1,063
Disposal Sys. Inc., Deer Park, Harris	0	8,216	0	1,995,485	0	0	5,583,690	7,587,391	0
Lyondell Chemical Worldwide Inc., Channelview, Harris	12,000,000	21,000	42,117,949	1,968,860	14,657,200	227,300	4,628,296	75,620,605	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Limestone Electric Generating Station, Jewett, Limestone	0	0	0	0	1,290,000	0	5,487,000	6,777,000	0
Martin Lake Steam Electric Station & Lignite, Tatum, Rusk	0	0	0	0	528,700	15	5,260,500	5,789,215	0
Monticello Steam Electric Station & Lignite Mine, Mount Pleasant, Titus	0	0	0	0	8,406,100	0	5,196,000	13,602,100	0
San Miguel Electric Cooperative Inc., Christine, Atascosa	0	0	0	0	2,733,118	0	3,806,609	6,539,727	0
Encycle Texas Inc., Corpus Christi, Nueces	12,686,894	431,124	0	0	0	0	2,875,041	15,993,059	107
Welsh Power Plant, Pittsburg, Camp	0	0	0	0	191,300	0	2,859,300	3,050,600	0
Southwestern Public Service Co., Harrington Station, Amarillo, Potter	0	0	0	0	94,000	0	2,475,000	2,569,000	0
Big Brown Steam Electric Station & Lignite Mine, Fairfield, Freestone	0	0	0	0	100,600	25	2,359,600	2,460,225	0
Coleto Creek Power Plant, Fannin, Goliad	0	0	0	0	122,200	0	1,979,440	2,101,640	0
H. W. Pirkey Power Plant, Hallsville, Harrison	0	0	0	0	950,000	0	1,811,420	2,761,420	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

UTAH

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	98,488,814	474,524,093	573,012,907
Air Emissions	61,208,838	3,529,068	64,737,906
Surface Water Discharges	1,131,818	14,940	1,146,758
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	11,158	15,535,167	15,546,325
Other On-site Land Releases	36,137,000	455,444,918	491,581,918
Off-site Releases (Transfers Off-site to Disposal)*	947,423	265,175	1,212,598
Total On- and Off-site Releases	99,436,237	474,789,268	574,225,505
Recycled On-site	1,596,040	6,039,400	7,635,440
Recycled Off-site	2,756,858	0	2,756,858
Energy Recovery On-site	25,386,759	0	25,386,759
Energy Recovery Off-site	159,747	15,603	175,350
Treated On-site	231,471,430	60,558,619	292,030,049
Treated Off-site**	900,241	72,506	972,747
Quantity Released On- and Off-site***	97,487,844	479,398,166	576,886,010
Total Production-related Waste Managed	359,758,919	546,084,294	905,843,213
Total Non-production-related Waste Managed	8,754,117	63	8,754,180

Transfers Off-site for Further Waste Management/Disposal

Recycling	2,686,740	0	2,686,740
Energy Recovery	157,713	16,106	173,819
Treatment	579,977	56,680	636,657
Publicly Owned Treatment Works (POTWs)	355,360	0	355,360
Metals and Metal Compounds*	2,581	0	2,581
Non-metal TRI Chemicals**	352,779	0	352,779
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	7,761,104	500,041	8,261,145
Total Transfers Off-site for Further Waste Management/Disposal	11,540,894	572,827	12,113,721

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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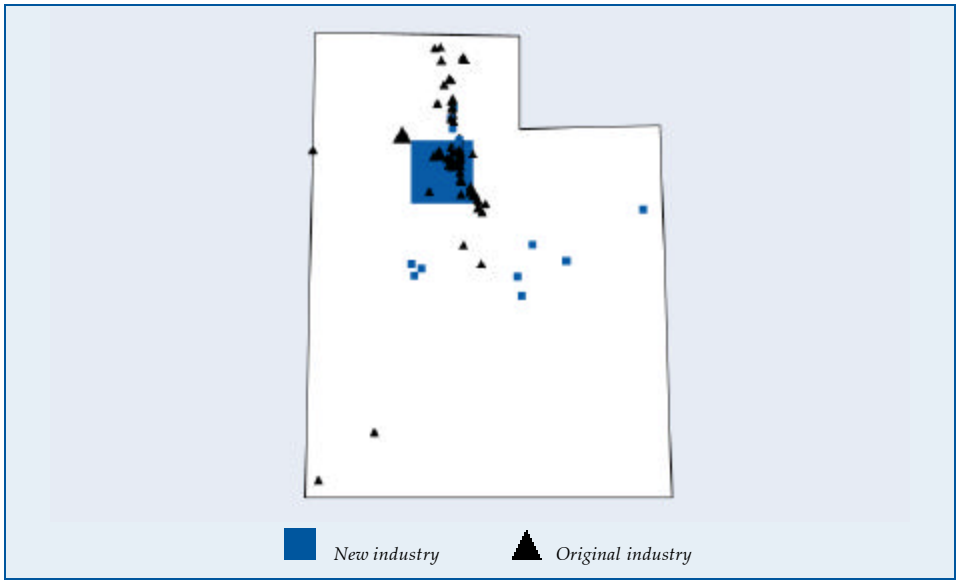
To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Utah. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	2,099,758
Square Miles	82,168
Total Facilities	164
Total Forms	709
Form As	89

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	7	3	3
Pounds	99,436,237	474,789,268	574,225,505
National Rank for Total On-site Releases**			
Rank	4	3	3
Pounds	98,488,814	474,524,093	573,012,907
National Rank for Total Releases within State***			
Rank	7	3	3
Pounds	102,547,098	474,751,632	577,298,730
National Rank for Production-related Waste Managed			
Rank	21	3	11
Pounds	359,758,919	546,084,294	905,843,213

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

UTAH

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7782-50-5	Chlorine	55,335,414	0	0	10,580	0	55,345,994	0	0	0
—	Copper compounds	87,445	750	0	11,000,423	75,684	11,164,302	76,509	398,053	54,336
—	Zinc compounds	17,218	3,218	0	7,423,086	2,754,663	10,198,185	1,654,475	3,098,875	2,202,610
—	Arsenic compounds	30,250	1,200	0	6,200,250	0	6,231,700	121,495	164,000	0
—	Lead compounds	86,143	278	0	5,300,288	193,144	5,579,853	2,095,342	331,643	190,894
7647-01-0	Hydrochloric acid	3,331,325	0	0	20,350	0	3,351,675	0	0	0
—	Nitrate compounds	146	1,100,005	0	1,321,098	0	2,421,249	3,259	0	0
—	Nickel compounds	1,656	750	0	2,160,028	3,818	2,166,252	110,265	7,448	3,818
—	Manganese compounds	3,759	250	0	531,710	234,993	770,712	134,477	366,480	234,944
7664-41-7	Ammonia	121,976	8,741	0	414,750	750	546,217	89	750	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Copper compounds	9,101	2,810	0	299,427,327	2,707	299,441,945	0	81,791	1,700
—	Manganese compounds	3,072	265	0	57,215,504	133,470	57,352,311	0	128,970	4,500
—	Arsenic compounds	1,544	250	0	50,495,620	272	50,497,686	2	42,946	141
—	Zinc compounds	3,576	6,215	0	24,009,428	31,625	24,050,844	2	64,710	3,200
—	Lead compounds	1,626	250	0	17,272,863	4,959	17,279,698	379	26,253	1,013
—	Chromium compounds	2,218	255	0	9,167,209	16,081	9,185,763	34	50,433	3,203
—	Barium compounds	4,081	183	0	2,386,374	41,006	2,431,644	1	12,005	29,001
—	Nickel compounds	1,583	2,100	0	2,248,251	679	2,252,613	0	247	432
7647-01-0	Hydrochloric acid	2,051,252	0	0	0	0	2,051,252	0	0	0
7440-39-3	Barium	2,658	0	0	1,709,137	0	1,711,795	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

UTAH

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Magnesium Corp. of America, Rowley, Tooele	57,691,060	0	0	0	0	0	57,691,060	0	0
Kennecott Utah Copper Smelter & Refy., Magna, Salt Lake	314,180	8,305	0	0	0	33,602,000	33,924,485	570,910	0
Geneva Steel, Vineyard, Utah	132,680	1,122,309	0	0	0	579,841	1,834,830	0	0
Westinghouse Electric Co., Western Zirconium, Ogden, Weber	197,000	0	0	0	0	1,578,500	1,775,500	0	0
Thiokol Propulsion, Corinne, Box Elder	1,012,000	0	0	0	0	0	1,012,000	229	0
Pacific States Cast Iron Pipe Co., Provo, Utah	4,315	0	0	0	0	168,309	172,624	0	0
U.S. Air Force Ogden Air Logistics Center, Hill AFB, Davis	122,219	0	0	0	0	0	122,219	36,621	32,736
Gossner Foods Inc., Cheese Plant, Logan, Cache	0	0	0	0	0	119,748	119,748	0	0
Becton Dickinson, Sandy, Salt Lake	110,000	0	0	0	0	0	110,000	0	0
Alliant Aerospace Co., Bacchus Works, Magna, Salt Lake	97,693	0	0	0	0	0	97,693	16	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Kennecott Utah Copper Mine Concentrators & Power Plant, Copperton, Salt Lake	25,576	14,735	0	0	0	405,344,455	405,384,766	3,450	0
Kennecott Barneys Canyon Mining Co., Bingham Canyon, Salt Lake	17,510	0	0	0	0	37,000,000	37,017,510	0	0
Safety Kleen (Lone & Grassy) Inc., GMF, Grantsville, Tooele	688	0	0	0	14,428,767	858,502	15,287,957	15,062	236
Barrick Resources USA Inc., Mercur Gold Mine, Stockton, Tooele	653	7	0	0	0	5,232,810	5,233,470	0	0
Pacificorp Huntington Plant, Huntington, Emery	937,249	0	0	0	0	1,066,370	2,003,619	7,124	7
Pacificorp Hunter Power Plant, Castle Dale, Emery	1,256,301	0	0	0	0	700,021	1,956,322	6,861	44,134
Bonanza Power Plant, Vernal, Uintah	90,151	0	0	0	0	1,820,219	1,910,370	0	0
Intermountain Power Station, Delta, Millard	150,300	0	0	0	0	1,658,100	1,808,400	0	0
Brush Wellman Inc. — Mill, Delta, Millard	489,755	0	0	0	0	977,395	1,467,150	0	0
Envirocare of Utah Inc., Grantsville, Tooele	0	0	0	0	1,106,400	0	1,106,400	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

UTAH

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Magnesium Corp. of America, Rowley, Tooele	4,500	0	0	0	219,000,000	0	57,432,100	276,436,600	0
Kennecott Utah Copper Smelter & Refy., Magna, Salt Lake	0	0	0	0	1,250	0	25,711,450	25,712,700	8,734,961
Nucor Corp., Nucor Steel, Plymouth, Box Elder	0	18	0	0	0	3	6,570,815	6,570,836	0
Geneva Steel, Vineyard, Utah	0	0	0	0	722,900	2,038	1,834,030	2,558,968	0
Westinghouse Electric Co., Western Zirconium, Ogden, Weber	0	0	0	0	7,107,000	0	1,774,704	8,881,704	0
Thiokol Propulsion, Corinne, Box Elder	0	87,721	0	0	329	0	996,301	1,084,351	44
Parish Chemical Co., Vineyard, Utah	0	0	0	0	0	312,560	326,972	639,532	0
U.S. Air Force Ogden Air Logistics Center, Hill A F B, Davis	1,440	66,400	0	24,200	18,000	59,100	191,201	360,341	18
Johnson Matthey, Salt Lake City, Salt Lake	0	0	0	0	277,896	0	183,235	461,131	0
Pacific States Cast Iron Pipe Co., Provo, Utah	0	0	0	0	0	0	172,641	172,641	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Kennecott Utah Copper Mine Concentrators & Power Plant, Copperton, Salt Lake	0	0	0	0	0	0	409,062,200	409,062,200	22
Kennecott Barneys Canyon Mining Co., Bingham Canyon, Salt Lake	0	0	0	0	0	0	37,017,000	37,017,000	0
Safety Kleen (Lone & Grassy) Inc., GMF, Grantsville, Tooele	0	0	0	0	0	46,445	15,246,277	15,292,722	28
Barrick Resources USA Inc., Mercur Gold Mine, Stockton, Tooele	1,200	0	0	0	240	0	5,233,470	5,234,910	0
Pacificorp Hunter Power Plant, Castle Dale, Emery	0	0	0	0	38,600,000	0	2,802,000	41,402,000	0
Pacificorp Huntington Plant, Huntington, Emery	0	0	0	0	1,050,000	0	2,013,000	3,063,000	0
Bonanza Power Plant, Vernal, Uintah	0	0	0	0	0	0	1,910,365	1,910,365	0
Intermountain Power Station, Delta, Millard	0	0	0	0	4,488,500	0	1,815,000	6,303,500	0
Brush Wellman Inc. — Mill, Delta, Millard	6,038,200	0	0	0	85,400	0	1,440,100	7,563,700	0
Sunnyside Cogeneration Associates, Sunnyside, Carbon	0	0	0	0	0	0	1,147,368	1,147,368	7

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

VERMONT

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	341,589	0	341,589
Air Emissions	189,210	0	189,210
Surface Water Discharges	151,374	0	151,374
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	1,005	0	1,005
Off-site Releases (Transfers Off-site to Disposal)*	71,376	0	71,376
Total On- and Off-site Releases	412,965	0	412,965
Recycled On-site	136,592	0	136,592
Recycled Off-site	1,644,156	0	1,644,156
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	17,016	0	17,016
Treated On-site	1,319,812	0	1,319,812
Treated Off-site**	379,625	0	379,625
Quantity Released On- and Off-site***	454,462	0	454,462
Total Production-related Waste Managed	3,951,663	0	3,951,663
Total Non-production-related Waste Managed	16,005	0	16,005

Transfers Off-site for Further Waste Management/Disposal

Recycling	732,626	0	732,626
Energy Recovery	17,016	0	17,016
Treatment	149,988	0	149,988
Publicly Owned Treatment Works (POTWs)	242,528	0	242,528
Metals and Metal Compounds*	525	0	525
Non-metal TRI Chemicals**	242,003	0	242,003
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	75,243	0	75,243
Total Transfers Off-site for Further Waste Management/Disposal	1,217,401	0	1,217,401

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

For More Information . . .

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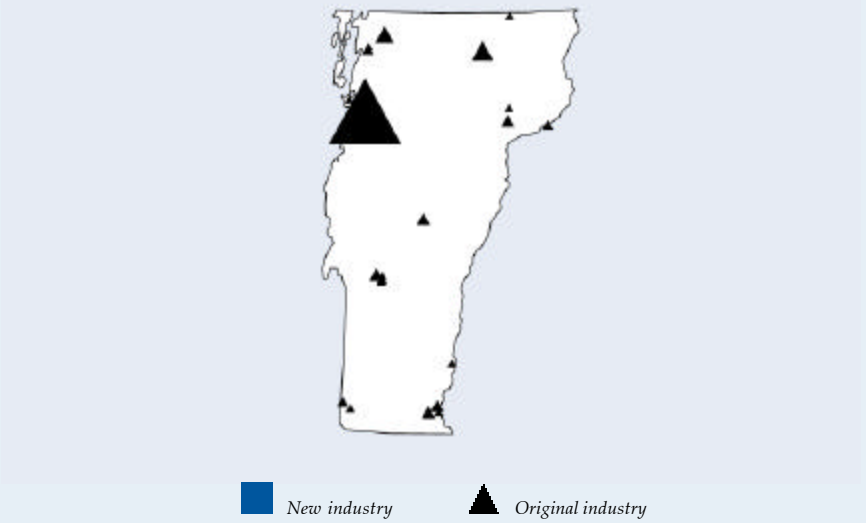
To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Vermont. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	590,883
Square Miles	9,249
Total Facilities	34
Total Forms	77
Form As	8

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	52	—	52
Pounds	412,965	0	412,965
National Rank for Total On-site Releases**			
Rank	52	—	52
Pounds	341,589	0	341,589
National Rank for Total Releases within State***			
Rank	52	—	52
Pounds	367,150	0	367,150
National Rank for Production-related Waste Managed			
Rank	52	—	52
Pounds	3,951,663	0	3,951,663

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

VERMONT

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Nitrate compounds	0	140,000	0	0	0	140,000	0	0	0
7664-41-7	Ammonia	43,580	6,483	0	0	0	50,063	0	0	0
108-88-3	Toluene	42,797	0	0	0	250	43,047	4,720	0	250
78-93-3	Methyl ethyl ketone	26,747	0	0	0	1,000	27,747	4,720	0	1,000
—	Zinc compounds	0	0	0	750	21,693	22,443	0	4,680	17,013
7439-92-1	Lead	5	20	0	0	18,745	18,770	6	250	18,495
75-45-6	Chlorodifluoromethane (HCFC-22)	15,860	0	0	0	0	15,860	0	0	0
108-95-2	Phenol	14,896	0	0	0	0	14,896	0	0	0
—	Manganese compounds	629	4,701	0	0	9,104	14,434	0	0	9,104
67-56-1	Methanol	12,292	0	0	0	750	13,042	0	0	750

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

VERMONT

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds
IBM, Essex Junction, Chittenden	36,089	146,490	0	0	0	0	182,579	0	18,245
Orleans Div. of Ethan Allen Inc., Orleans, Orleans	34,504	0	0	0	0	0	34,504	0	1,750
Rock-Tenn Co., Sheldon Springs, Franklin	26,780	183	0	0	0	0	26,963	0	0
Rutland Plywood Corp., Rutland, Rutland	15,248	0	0	0	0	0	15,248	0	0
EHV-Weidmann Inds. Inc., Saint Johnsbury, Caledonia	12,172	0	0	0	0	0	12,172	0	0
G.S. Precision Inc., Brattleboro, Windham	12,022	0	0	0	0	0	12,022	0	0
Randolph Div. of Ethan Allen Inc., Randolph, Orange	11,200	0	0	0	0	0	11,200	0	250
C. E. Bradley Labs. Inc., North Brattleboro, Windham	10,611	0	0	0	0	0	10,611	0	0
Mylan Tech. Inc., Saint Albans, Franklin	7,369	0	0	0	0	0	7,369	0	0
Chemfab Corp., North Bennington, Bennington	5,995	0	0	0	0	0	5,995	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

VERMONT

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
IBM, Essex Junction, Chittenden	0	233,500	0	0	679,510	130	184,631	1,097,771	16,000
General Electric Co., North Clarendon, Rutland	0	73,900	0	0	75,300	60,000	45,187	254,387	0
Orleans Div. of Ethan Allen Inc., Orleans, Orleans	8,492	0	0	0	0	1,617	34,504	44,613	0
Rock-Tenn Co., Sheldon Springs, Franklin	0	0	0	0	0	0	26,963	26,963	0
Cabot Creamery Co-Op. Inc., Cabot, Washington	0	0	0	0	0	0	26,000	26,000	1
Fulflex of Vermont Inc., Brattleboro, Windham	0	869	0	0	0	0	17,013	17,882	0
Rutland Plywood Corp., Rutland, Rutland	1,667	0	0	0	0	0	15,080	16,747	2
Champlain Cable Corp., Colchester, Chittenden	0	0	0	0	0	0	14,391	14,391	0
Simpson Paper Co., Gilman, Essex	0	2,909	0	0	0	0	13,603	16,512	0
EHV-Weidmann Inds. Inc., Saint Johnsbury, Caledonia	0	0	0	0	0	0	12,172	12,172	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

VIRGIN ISLANDS

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	1,055,419	30,554	1,085,973
Air Emissions	1,016,014	3,722	1,019,736
Surface Water Discharges	37,903	26,832	64,735
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	1,502	0	1,502
Off-site Releases (Transfers Off-site to Disposal)*	142	35	177
Total On- and Off-site Releases	1,055,561	30,589	1,086,150
Recycled On-site	736,904	0	736,904
Recycled Off-site	145,485	0	145,485
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	0	0	0
Treated On-site	14,488,182	0	14,488,182
Treated Off-site**	390,821	0	390,821
Quantity Released On- and Off-site***	1,055,560	28,918	1,084,478
Total Production-related Waste Managed	16,816,952	28,918	16,845,870
Total Non-production-related Waste Managed	0	0	0

Transfers Off-site for Further Waste Management/Disposal

Recycling	145,485	0	145,485
Energy Recovery	0	0	0
Treatment	390,820	0	390,820
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	142	35	177
Total Transfers Off-site for Further Waste Management/Disposal	536,447	35	536,482

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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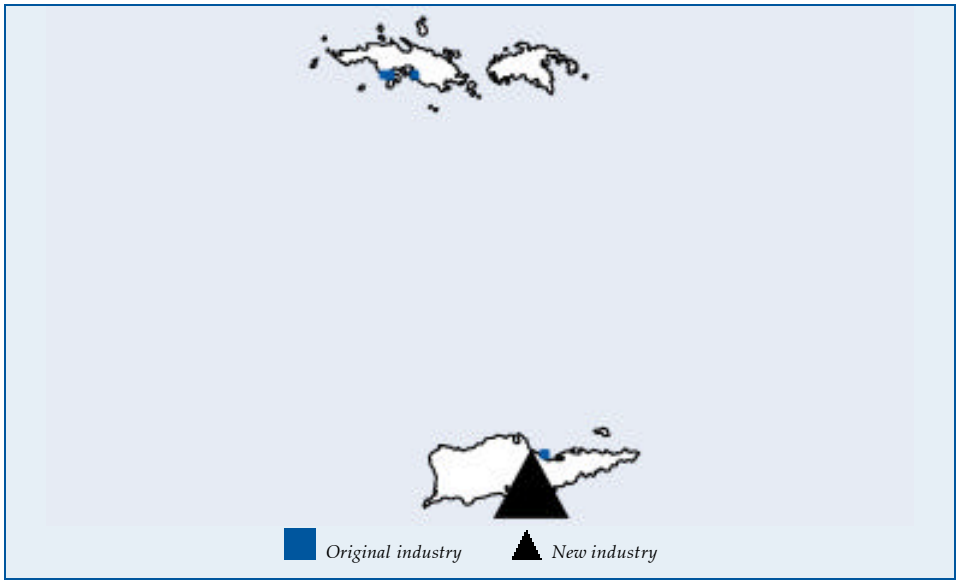


The largest marker in the state map represents the largest facility for on-site releases in the Virgin Islands. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

State/TRI Data

Population	118,305
Square Miles	134
Total Facilities	5
Total Forms	52
Form As	6

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	50	52	51
Pounds	1,055,561	30,589	1,086,150
National Rank for Total On-site Releases**			
Rank	50	52	51
Pounds	1,055,419	30,554	1,085,973
National Rank for Total Releases within State***			
Rank	50	52	51
Pounds	1,055,419	30,554	1,085,973
National Rank for Production-related Waste Managed			
Rank	46	52	50
Pounds	16,816,952	28,918	16,845,870

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

VIRGIN ISLANDS

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
74-85-1	Ethylene	281,433	0	0	0	0	281,433	0	0	0
115-07-1	Propylene	211,401	0	0	0	0	211,401	0	0	0
1330-20-7	Xylene (mixed isomers)	120,368	42	0	0	4	120,414	0	0	4
7664-41-7	Ammonia	73,722	36,721	0	0	0	110,443	0	0	0
108-95-2	Phenol	62,833	1,076	0	0	0	63,909	0	0	0
110-54-3	n-Hexane	55,508	0	0	0	0	55,508	0	0	0
108-88-3	Toluene	53,680	16	0	0	14	53,710	0	0	14
1634-04-4	Methyl tert-butyl ether	42,431	0	0	0	0	42,431	0	0	0
100-41-4	Ethylbenzene	24,824	0	0	0	1	24,825	0	0	1
71-43-2	Benzene	23,336	7	0	0	26	23,369	0	0	26

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

		On-site Releases				Off-site Releases		Off-site Transfers to Disposal		
CAS Number	Chemical	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7782-50-5	Chlorine	0	26,832	0	0	0	26,832	0	0	0
1634-04-4	Methyl tert-butyl ether	1,346	0	0	0	5	1,351	0	0	5
108-88-3	Toluene	510	0	0	0	5	515	0	0	5
1330-20-7	Xylene (mixed isomers)	505	0	0	0	5	510	0	0	5
95-63-6	1,2,4-Trimethylbenzene	299	0	0	0	5	304	0	0	5
110-54-3	n-Hexane	294	0	0	0	5	299	0	0	5
71-43-2	Benzene	255	0	0	0	5	260	0	0	5
100-41-4	Ethylbenzene	250	0	0	0	0	250	0	0	0
110-82-7	Cyclohexane	250	0	0	0	0	250	0	0	0
91-20-3	Naphthalene	5	0	0	0	5	10	0	0	5

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

VIRGIN ISLANDS

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Hovensa L.L.C., Christiansted, St Croix	1,016,014	37,903	0	0	0	1,502	1,055,419	0	142

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Virgin Islands Water & Power Authority, Saint Thomas, St Thomas	53	15,282	0	0	0	0	15,335	0	0
Virgin Islands Water & Power Authority, Christiansted, St Croix	28	11,550	0	0	0	0	11,578	0	0
Esso St. Thomas Bulk Terminal, Saint Thomas, St Thomas	3,121	0	0	0	0	0	3,121	0	35
St. Thomas Bulk Terminal, Saint Thomas, St Thomas	520	0	0	0	0	0	520	0	0

The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

1998 Toxics Release Inventory

VIRGIN ISLANDS

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Hovensa L.L.C., Christiansted, St Croix	736,904	145,485	0	0	14,488,182	390,821	1,055,560	16,816,952	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Virgin Islands Water & Power Authority, Saint Thomas, St Thomas	0	0	0	0	0	0	15,285	15,285	0
Virgin Islands Water & Power Authority, Christiansted, St Croix	0	0	0	0	0	0	11,578	11,578	0
Esso St. Thomas Bulk Terminal, Saint Thomas, St Thomas	0	0	0	0	0	0	1,940	1,940	0
St. Thomas Bulk Terminal, Saint Thomas, St Thomas	0	0	0	0	0	0	115	115	0

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

1998 Toxics Release Inventory

VIRGINIA

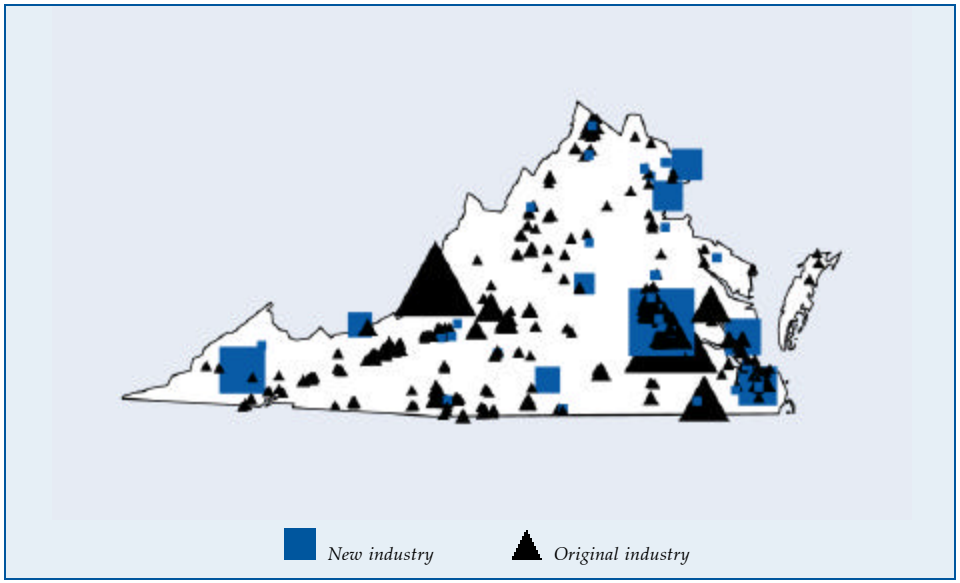
Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	49,477,085	23,199,023	72,676,108
Air Emissions	45,297,883	17,600,284	62,898,167
Surface Water Discharges	2,561,850	2,790,694	5,352,544
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	104,229	0	104,229
Other On-site Land Releases	1,513,123	2,808,045	4,321,168
Off-site Releases (Transfers Off-site to Disposal)*	6,944,884	303,894	7,248,778
Total On- and Off-site Releases	56,421,969	23,502,917	79,924,886
Recycled On-site	254,849,274	1,222,160	256,071,434
Recycled Off-site	18,914,718	3,910,459	22,825,177
Energy Recovery On-site	37,236,947	0	37,236,947
Energy Recovery Off-site	7,662,931	1,378,382	9,041,313
Treated On-site	109,085,977	5,967,079	115,053,056
Treated Off-site**	17,193,602	4,564	17,198,166
Quantity Released On- and Off-site***	56,241,714	23,200,105	79,441,819
Total Production-related Waste Managed	501,185,163	35,682,749	536,867,912
Total Non-production-related Waste Managed	22,730	111,944	134,674

Transfers Off-site for Further Waste Management/Disposal

Recycling	18,741,738	3,917,878	22,659,616
Energy Recovery	7,207,244	1,379,737	8,586,981
Treatment	2,619,913	5,925	2,625,838
Publicly Owned Treatment Works (POTWs)	13,968,181	435	13,968,616
Metals and Metal Compounds*	57,514	0	57,514
Non-metal TRI Chemicals**	13,910,667	435	13,911,102
Other Off-site Transfers****	750	0	750
Off-site Transfers to Disposal *(not including metals to POTWs)*	7,313,733	303,913	7,617,646
Total Transfers Off-site for Further Waste Management/Disposal	49,851,559	5,607,888	55,459,447

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*



The largest marker in the state map represents the largest facility for on-site releases in the state of Virginia. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data†

Population	6,791,345
Square Miles	39,598
Total Facilities	496
Total Forms	1,822
Form As	277

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	16	28	24
Pounds	56,421,969	23,502,917	79,924,886
National Rank for Total On-site Releases**			
Rank	16	27	24
Pounds	49,477,085	23,199,023	72,676,108
National Rank for Total Releases within State***			
Rank	16	28	24
Pounds	54,909,627	23,360,994	78,270,621
National Rank for Production-related Waste Managed			
Rank	18	30	21
Pounds	501,185,163	35,682,749	536,867,912

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

For More Information . . .

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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347

†*One facility, Hopewell Cogeneration Facility in Hopewell, Virginia reported 2.4 million pounds of on-site releases, but has subsequently withdrawn their data submissions. The withdrawal changes the national rank for total on-site releases for new industries from 27 to 28 and for total industries from 24 to 25.*

1998 Toxics Release Inventory

VIRGINIA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
67-56-1	Methanol	12,622,601	71,902	0	18,884	49,266	12,762,653	0	36,006	13,260
7664-41-7	Ammonia	8,033,558	93,176	0	1,805	165,151	8,293,690	180	13,194	151,957
108-88-3	Toluene	4,082,874	975	0	9,773	37	4,093,659	0	37	0
7647-01-0	Hydrochloric acid	3,183,383	0	0	0	3,712	3,187,095	0	0	3,712
7440-66-6	Zinc (fume or dust)	31,563	242	0	39,443	2,587,449	2,658,697	0	2,404,553	182,896
—	Nitrate compounds	4,905	2,272,384	0	0	16,452	2,293,741	0	9,314	7,138
—	Zinc compounds	25,259	21,028	0	672,359	1,476,328	2,194,974	85,305	229,121	1,247,468
78-93-3	Methyl ethyl ketone	2,077,440	678	0	1,918	1,536	2,081,572	434	217	1,319
1330-20-7	Xylene (mixed isomers)	1,818,214	5	0	0	381	1,818,600	29	381	0
75-09-2	Dichloromethane	1,407,953	0	0	0	167	1,408,120	0	163	4

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	12,355,599	10	0	0	0	12,355,609	0	0	0
7664-93-9	Sulfuric acid†	3,305,294	2,400,000	0	0	0	5,705,294	0	0	0
7664-39-3	Hydrogen fluoride	1,421,505	0	0	0	0	1,421,505	0	0	0
—	Barium compounds	2,801	27,194	0	1,276,210	98,287	1,404,492	925	95,779	2,508
—	Manganese compounds	55,675	57,749	0	302,310	1,730	417,464	0	1,730	0
—	Zinc compounds	34,899	9,615	0	304,540	2,650	351,704	1,400	2,650	0
—	Chromium compounds	90,414	283	0	216,710	1,720	309,127	5,430	1,600	120
—	Copper compounds	852	5,621	0	282,860	2,530	291,863	1,950	2,530	0
—	Nickel compounds	43,661	1,389	0	198,010	6,700	249,760	2,150	6,700	0
7440-39-3	Barium	1,255	70,250	0	0	160,000	231,505	0	0	160,000

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*
†*One facility, Hopewell Cogeneration Facility in Hopewell, Virginia reported 2.4 million pounds of on-site surface water discharges of sulfuric acid, but has subsequently withdrawn their data submissions. The withdrawal does not change the rank of sulfuric acid.*

1998 Toxics Release Inventory

VIRGINIA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
AlliedSignal Inc. Hopewell Plant, Hopewell, Hopewell City	5,419,387	122,790	0	0	0	0	5,542,177	16,270	0
Westvaco Corp. Bleached Board Div., Covington, Alleghany	4,540,497	73,345	0	0	0	202,439	4,816,281	0	0
Union Camp Corp. Fine Paper, Franklin, Isle of Wight	2,603,614	88,831	0	0	0	0	2,692,445	917,741	0
Stone Container Corp., Hopewell, Hopewell City	2,014,664	0	0	0	0	0	2,014,664	251,530	0
St. Laurent Paper Prods. Corp., West Point, King William	1,681,104	1,849	0	0	0	308,070	1,991,023	0	0
Fibermark Inc., Richmond, Richmond City	1,657,278	0	0	0	0	0	1,657,278	0	0
Philip Morris USA BL/LPF/TQAF Plant, Richmond, Richmond City	1,510,265	0	0	0	0	0	1,510,265	1,700	0
Georgia-Pacific Corp., Big Island, Bedford	1,096,435	17,920	0	0	0	233,170	1,347,525	0	0
Quebecor Printing Richmond Inc., Richmond, Henrico	1,182,436	0	0	0	0	0	1,182,436	0	0
Ford Motor Co. Norfolk Assembly Plant, Norfolk, Norfolk City	1,061,819	0	0	0	0	0	1,061,819	1,254	21,909

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)†

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Chesterfield Power Station, Chester, Chesterfield	3,936,278	18,444	0	0	0	912,000	4,866,722	0	0
American Electric Power, Clinch River Plant, Cleveland, Russell	2,934,168	51	0	0	0	199,245	3,133,464	0	2,861
Chesapeake Energy Center, Chesapeake, Chesapeake City	2,456,601	53,563	0	0	0	0	2,510,164	0	0
Yorktown Power Station, Yorktown, York	2,228,540	10,335	0	0	0	26,100	2,264,975	26,210	0
Pepco Potomac River Generating Station, Alexandria, Alexandria City	1,661,685	172,400	0	0	0	0	1,834,085	0	184,600
Possum Point Power Station, Dumfries, Prince William	1,476,600	6,450	0	0	0	300,000	1,783,050	0	0
Clover Power Station, Clover, Halifax	426,770	3,889	0	0	0	942,000	1,372,659	0	0
Glen Lyn Plant, Glen Lyn, Giles	1,022,386	8,423	0	0	0	265,260	1,296,069	0	8
Bremo Power Station, Bremo Bluff, Fluvanna	826,700	3,091	0	0	0	163,000	992,791	0	0
James River Cogeneration Co. Inc., Hopewell, Hopewell City	160,000	0	0	0	0	0	160,000	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*
†One facility, Hopewell Cogeneration Facility in Hopewell, Virginia reported 2.4 million pounds of total on-site releases, but has subsequently withdrawn their data submissions. The facility has been removed from this list.

1998 Toxics Release Inventory

VIRGINIA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
AlliedSignal Inc. Hopewell Plant, Hopewell, Hopewell City	2,865,790	0	1,671,700	0	3,007,865	699,825	5,556,575	13,801,755	0
Westvaco Corp. Bleached Board Div., Covington, Alleghany	0	0	451,100	0	15,872,900	0	4,833,840	21,157,840	0
Union Camp Corp. Fine Paper, Franklin, Isle of Wight	200,000	0	2,000,120	0	40,970,401	0	3,581,920	46,752,441	0
Roanoke Electric Steel Corp., Roanoke, Roanoke	0	0	0	0	0	0	3,309,592	3,309,592	0
Stone Container Corp., Hopewell, Hopewell City	0	0	8,900	0	0	4,004,000	2,266,816	6,279,716	0
St. Laurent Paper Prods. Corp., West Point, King William	0	0	912,022	0	3,494,684	0	1,988,702	6,395,408	0
Fibermark Inc., Richmond, Richmond City	5,112,215	0	0	1,359	0	0	1,764,909	6,878,483	0
Philip Morris USA Bl/LPF/TQAF Plant, Richmond, Richmond City	0	0	0	0	0	26,000	1,511,965	1,537,965	0
Georgia-Pacific Corp., Big Island, Bedford	0	0	0	0	1,528,918	0	1,349,638	2,878,556	0
Quebecor Printing Richmond Inc., Richmond, Henrico	16,551,665	47,994	0	42,798	0	0	1,182,436	17,824,893	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)†

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Chesterfield Power Station, Chester, Chesterfield	0	0	0	0	0	0	4,863,000	4,863,000	0
American Electric Power, Clinch River Plant, Cleveland, Russell	0	51,700	0	0	450,000	0	3,134,900	3,636,600	0
Chesapeake Energy Center, Chesapeake, Chesapeake City	0	0	0	0	0	0	2,510,100	2,510,100	0
Yorktown Power Station, Yorktown, York	0	0	0	0	0	0	2,265,300	2,265,300	0
Pepco Potomac River Generating Station, Alexandria, Alexandria City	0	0	0	0	60,070	0	2,023,000	2,083,070	1
Possum Point Power Station, Dumfries, Prince William	0	0	0	0	0	0	1,612,000	1,612,000	0
Clover Power Station, Clover, Halifax	0	0	0	0	998,000	0	1,370,900	2,368,900	0
Glen Lyn Plant, Glen Lyn, Giles	0	42,000	0	0	190,000	0	1,298,000	1,530,000	0
Bremo Power Station, Bremo Bluff, Fluvanna	0	0	0	0	0	0	993,000	993,000	0
James River Cogeneration Co. Inc., Hopewell, Hopewell City	0	0	0	0	0	0	160,000	160,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

†One facility, Hopewell Cogeneraton Facility in Hopewell, Virginia reported 4.8 million pounds of total production-related waste, but has subsequently withdrawn their data submissions. The facility has been removed from this list.

1998 Toxics Release Inventory

WASHINGTON

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	25,446,704	5,191,490	30,638,194
Air Emissions	21,604,993	1,257,003	22,861,996
Surface Water Discharges	3,497,496	863	3,498,359
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	255	0	255
Other On-site Land Releases	343,960	3,933,624	4,277,584
Off-site Releases (Transfers Off-site to Disposal)*	2,283,466	1,569,468	3,852,934
Total On- and Off-site Releases	27,730,170	6,760,958	34,491,128
Recycled On-site	87,128,868	0	87,128,868
Recycled Off-site	6,791,475	425	6,791,900
Energy Recovery On-site	14,323,943	0	14,323,943
Energy Recovery Off-site	949,756	432	950,188
Treated On-site	73,796,501	728,527	74,525,028
Treated Off-site**	3,987,101	70,767	4,057,868
Quantity Released On- and Off-site***	31,444,599	5,362,448	36,807,047
Total Production-related Waste Managed	218,422,243	6,162,599	224,584,842
Total Non-production-related Waste Managed	115,891	0	115,891

Transfers Off-site for Further Waste Management/Disposal

Recycling	5,845,470	1,007,317	6,852,787
Energy Recovery	932,436	1,108,223	2,040,659
Treatment	1,035,560	330,766	1,366,326
Publicly Owned Treatment Works (POTWs)	2,714,050	3,663	2,717,713
Metals and Metal Compounds*	2,700	7	2,707
Non-metal TRI Chemicals**	2,711,350	3,656	2,715,006
Other Off-site Transfers****	236,279	0	236,279
Off-site Transfers to Disposal *(not including metals to POTWs)*	6,659,439	1,813,888	8,473,327
Total Transfers Off-site for Further Waste Management/Disposal	17,423,234	4,263,857	21,687,091

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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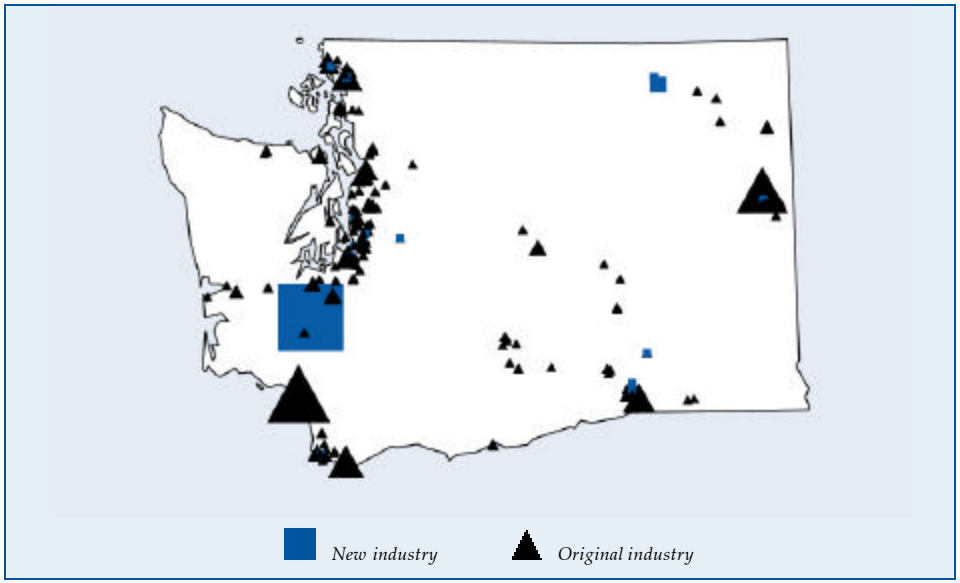

The largest marker in the state map represents the largest facility for on-site releases in the state of Washington. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	5,689,263
Square Miles	66,581
Total Facilities	309
Total Forms	1,119
Form As	168

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	27	44	35
Pounds	27,730,170	6,760,958	34,491,128
National Rank for Total On-site Releases**			
Rank	26	44	35
Pounds	25,446,704	5,191,490	30,638,194
National Rank for Total Releases within State***			
Rank	26	44	35
Pounds	26,259,376	6,342,539	32,601,915
National Rank for Production-related Waste Managed			
Rank	29	45	33
Pounds	218,422,243	6,162,599	224,584,842

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

WASHINGTON

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
67-56-1	Methanol	4,862,266	679,816	0	4,568	750	5,547,400	0	750	0
—	Zinc compounds	36,149	33,729	0	250	3,793,396	3,863,524	18	124,229	3,669,167
7664-39-3	Hydrogen fluoride	2,894,430	0	0	45	12,492	2,906,967	0	12,313	179
—	Nitrate compounds	521	2,053,584	0	116,801	521,905	2,692,811	0	5	521,900
7664-41-7	Ammonia	1,672,071	305,937	0	111,013	97,891	2,186,912	0	80,965	16,926
463-58-1	Carbonyl sulfide	2,091,468	0	0	0	0	2,091,468	0	0	0
100-42-5	Styrene	1,413,149	238	0	0	5	1,413,392	0	5	0
78-93-3	Methyl ethyl ketone	1,031,188	3,592	0	848	1,787	1,037,415	130	145	1,642
7647-01-0	Hydrochloric acid	1,009,102	0	0	0	0	1,009,102	0	0	0
7664-93-9	Sulfuric acid	911,681	0	0	0	0	911,681	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Barium compounds	922	503	0	1,234,250	32,570	1,268,245	29,000	32,570	0
—	Manganese compounds	362	109	0	777,222	8,066	785,759	4,500	8,066	0
—	Zinc compounds	14	24	0	624,913	33,348	658,299	3,200	28,909	4,439
7664-39-3	Hydrogen fluoride	645,368	0	0	0	0	645,368	0	0	0
107-21-1	Ethylene glycol	255	0	0	0	617,655	617,910	0	617,655	0
1332-21-4	Asbestos (friable)	0	0	0	0	378,455	378,455	0	3,280	375,175
—	Lead compounds	131	8	0	328,331	2,491	330,961	1,016	1,604	887
—	Copper compounds	151	18	0	278,527	8,446	287,142	1,700	8,446	0
7647-01-0	Hydrochloric acid	256,946	0	0	0	0	256,946	0	0	0
—	Chromium compounds	60	3	0	155,736	49,082	204,881	3,202	4,902	44,180

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

WASHINGTON

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Weyerhaeuser Co., Longview, Cowlitz	2,953,604	271,566	0	0	0	0	3,225,170	148,189	0
Kaiser Aluminum & Chemical Corp. — Mead Works, Mead, Spokane	2,483,255	284	0	0	0	250	2,483,789	250	17,615
Fort James Camas L.L.C., Camas, Clark	1,124,405	436,050	0	0	0	1,625	1,562,080	0	3,300
Boise Cascade Paper Div., Wallula, Walla Walla	1,232,372	89,344	0	0	0	39,118	1,360,834	0	7
Georgia-Pacific West Inc., Bellingham, Whatcom	442,714	864,589	0	0	0	0	1,307,303	901	3,052
Simpson Tacoma Kraft Co., Tacoma, Pierce	956,708	68,041	0	0	0	0	1,024,749	84	0
Unocal Agricultural Prods. Kennewick Plant, Kennewick, Benton	834,255	32,569	0	0	0	114,196	981,020	0	538,826
Kimberly-Clark Tissue Co., Everett, Snohomish	176,380	567,100	0	0	0	0	743,480	74,300	0
Boeing Commercial Airplane Group — Everett, Everett, Snohomish	697,338	562	0	0	0	0	697,900	26,449	681
Intalco Aluminum Corp., Ferndale, Whatcom	608,553	0	0	0	0	0	608,553	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers Off-site to Disposal): Transferred Out of State Pounds
Centralia Power Plant, Centralia, Lewis	1,064,674	738	0	0	0	3,364,931	4,430,343	88,071	0
Kettle River Ops. Mill, Republic, Ferry	27,040	0	0	0	0	547,015	574,055	4	0
Encogen Northwest Cogeneration Plant, Bellingham, Whatcom	59,005	0	0	0	0	0	59,005	0	0
Tidewater Terminal Co. Snake River Terminal, Pasco, Franklin	24,585	0	0	0	0	7,063	31,648	0	10,072
Unocal Agricultural Prods., Kennewick, Benton	8,820	125	0	0	0	14,600	23,545	0	0
Northwest Terminalling Co. (Pasco), Pasco, Franklin	13,755	0	0	0	0	0	13,755	0	81
City of Tacoma Steam Plant No 2, Tacoma, Pierce	12,762	0	0	0	0	5	12,767	7	0
Tosco, Renton Terminal, Renton, King	12,064	0	0	0	0	0	12,064	0	0
Conoco Parkwater Product Terminal, Spokane, Spokane	10,338	0	0	0	0	0	10,338	0	0
Equilon Seattle Terminal, Seattle, King	4,500	0	0	0	0	0	4,500	1,500	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory WASHINGTON

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Birmingham Steel Corp. Seattle WA. Steel Div., Seattle, King	0	116,654	0	0	0	0	4,325,797	4,442,451	0
Weyerhaeuser Co., Longview, Cowlitz	1,900	0	0	900	11,069,220	0	3,369,510	14,441,530	6,624
Kaiser Aluminum & Chemical Corp. — Mead Works, Mead, Spokane	2,790	300,000	0	0	63,000	0	2,500,300	2,866,090	0
Fort James Camas L.L.C., Camas, Clark	0	0	954,100	0	12,553,600	8,074	1,581,000	15,096,774	485
Unocal Agricultural Prods. Kennewick Plant, Kennewick, Benton	0	0	0	0	0	0	1,415,830	1,415,830	104,310
Boise Cascade Paper Div., Wallula, Walla Walla	0	0	19,000	0	8,987,200	0	1,359,255	10,365,455	0
Georgia-Pacific West Inc., Bellingham, Whatcom	1,604,120	0	0	0	4,229,110	0	1,312,629	7,145,859	118
Reynolds Metals Co., Longview Reduction Plant, Longview, Cowlitz	0	23,865	0	0	3,506,023	2,471	1,195,852	4,728,211	0
Simpson Tacoma Kraft Co., Tacoma, Pierce	0	0	309,142	0	7,361,850	0	1,024,867	8,695,859	25
Kimberly-Clark Tissue Co., Everett, Snohomish	0	0	169,000	0	3,865,700	74,800	743,140	4,852,640	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Centralia Power Plant, Centralia, Lewis	0	0	0	0	83,365	0	4,527,683	4,611,048	0
Kettle River Ops. Mill, Republic, Ferry	0	0	0	0	0	23	574,000	574,023	0
Encogen Northwest Cogeneration Plant, Bellingham, Whatcom	0	0	0	0	0	0	59,004	59,004	0
City of Tacoma Steam Plant No 2, Tacoma, Pierce	0	0	0	0	0	0	57,149	57,149	0
Tidewater Terminal Co. Snake River Terminal, Pasco, Franklin	0	0	0	0	18,043	10,072	43,110	71,225	0
Unocal Agricultural Prods., Kennewick, Benton	0	0	0	0	0	0	23,420	23,420	0
Lamefoot Mine, Republic, Ferry	0	0	0	0	0	0	21,000	21,000	0
Northwest Terminalling Co. (Pasco), Pasco, Franklin	0	0	0	0	51,400	189	13,850	65,439	0
Tosco, Renton Terminal, Renton, King	0	0	0	7	574,220	2,030	11,973	588,230	0
Conoco Parkwater Product Terminal, Spokane, Spokane	0	0	0	0	0	57,828	8,997	66,825	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

WEST VIRGINIA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	19,714,585	75,730,448	95,445,033
Air Emissions	12,404,749	63,723,002	76,127,751
Surface Water Discharges	7,266,259	370,787	7,637,046
Underground Injection Class I Wells	20	18	38
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	10,036	0	10,036
Other On-site Land Releases	33,521	11,636,641	11,670,162
Off-site Releases (Transfers Off-site to Disposal)*	6,436,250	1,959,041	8,395,291
Total On- and Off-site Releases	26,150,835	77,689,489	103,840,324
Recycled On-site	43,338,962	0	43,338,962
Recycled Off-site	6,081,695	527,975	6,609,670
Energy Recovery On-site	44,353,486	0	44,353,486
Energy Recovery Off-site	9,802,836	3,417	9,806,253
Treated On-site	110,440,195	6,639,644	117,079,839
Treated Off-site**	7,055,196	229	7,055,425
Quantity Released On- and Off-site***	26,112,905	77,658,246	103,771,151
Total Production-related Waste Managed	247,185,275	84,829,511	332,014,786
Total Non-production-related Waste Managed	80,476	42	80,518

Transfers Off-site for Further Waste Management/Disposal

Recycling	6,077,282	527,975	6,605,257
Energy Recovery	9,899,994	7	9,900,001
Treatment	2,557,476	2,629	2,560,105
Publicly Owned Treatment Works (POTWs)	3,507,416	3	3,507,419
Metals and Metal Compounds*	4,405	3	4,408
Non-metal TRI Chemicals**	3,503,011	0	3,503,011
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	6,466,495	1,959,038	8,425,533
Total Transfers Off-site for Further Waste Management/Disposal	28,508,663	2,489,652	30,998,315

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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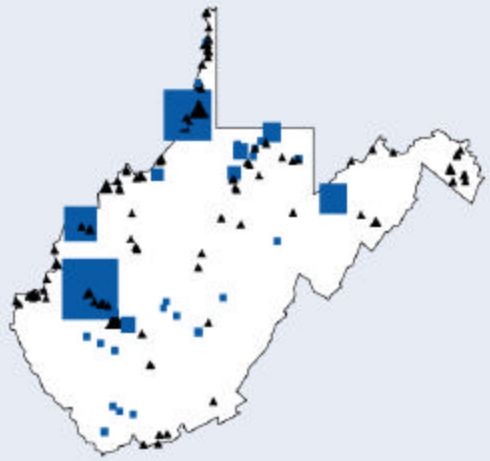

New industry *Original industry*

The largest marker in the state map represents the largest facility for on-site releases in the state of West Virginia. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	1,811,156
Square Miles	24,087
Total Facilities	182
Total Forms	924
Form As	58

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	28	9	21
Pounds	26,150,835	77,689,489	103,840,324
National Rank for Total On-site Releases**			
Rank	32	10	21
Pounds	19,714,585	75,730,448	95,445,033
National Rank for Total Releases within State***			
Rank	29	9	21
Pounds	24,938,389	78,215,147	103,153,536
National Rank for Production-related Waste Managed			
Rank	28	18	28
Pounds	247,185,275	84,829,511	332,014,786

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

WEST VIRGINIA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Nitrate compounds	0	6,846,887	0	26	0	6,846,913	3,160	0	0
—	Manganese compounds	13,655	57,639	0	71	3,666,805	3,738,170	76,115	3,597,603	69,202
7647-01-0	Hydrochloric acid	1,325,767	250	0	0	0	1,326,017	0	0	0
67-56-1	Methanol	994,029	74,486	0	0	1,257	1,069,772	0	0	1,257
108-88-3	Toluene	789,791	3,409	0	2,764	210,372	1,006,336	0	320	210,052
—	Chromium compounds	5,615	15,818	0	26,621	888,757	936,811	4,820	296,221	592,536
7664-41-7	Ammonia	760,245	118,050	0	250	46,498	925,043	315	44,842	1,656
—	Glycol ethers	905,544	11,423	0	0	6,775	923,742	0	0	6,775
78-93-3	Methyl ethyl ketone	856,238	87	0	250	0	856,575	0	0	0
75-15-0	Carbon disulfide	855,257	389	0	0	0	855,646	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	51,394,904	0	0	0	0	51,394,904	0	0	0
7664-93-9	Sulfuric acid	6,996,220	0	0	0	0	6,996,220	0	0	0
—	Barium compounds	21,304	26,845	0	5,058,290	848,468	5,954,907	9,810	847,488	980
7664-39-3	Hydrogen fluoride	3,780,724	0	0	0	0	3,780,724	0	0	0
—	Zinc compounds	860,953	15,300	11	1,110,222	183,100	2,169,586	0	183,100	0
—	Manganese compounds	47,163	14,945	0	1,677,786	186,000	1,925,894	0	186,000	0
—	Copper compounds	7,014	11,842	7	1,036,681	157,200	1,212,744	0	157,200	0
—	Chromium compounds	51,531	915	0	811,063	153,087	1,016,596	493	152,938	149
—	Nickel compounds	33,816	12,033	0	617,669	132,400	795,918	0	132,400	0
7664-41-7	Ammonia	422,998	281,714	0	0	0	704,712	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

WEST VIRGINIA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Du Pont Belle Plant, Belle, Kanawha	265,354	2,915,000	0	0	0	0	3,180,354	0	100
Bayer Corp., New Martinsville, Marshall	309,549	2,861,762	0	0	0	212	3,171,523	32,699	17,489
Du Pont Washington Works, Washington, Wood	990,001	489,844	0	0	0	38	1,479,883	674,673	29,393
Columbian Chemicals Co., Proctor, Marshall	1,090,000	0	0	0	0	0	1,090,000	0	0
U.S. Can Co., Plant #20 Weirton, Weirton, Brooke	1,071,454	0	0	0	0	0	1,071,454	0	0
Cytec Inds. Inc., Willow Island, Pleasants	411,023	479,831	0	0	0	0	890,854	0	205,000
American Woodmark Corp., Moorefield, Hardy	766,080	0	0	0	0	0	766,080	0	0
Shell Chemical Co., Apple Grove, Mason	665,014	42,529	0	0	0	0	707,543	0	0
GE Co., Washington, Wood	490,834	98,857	0	0	0	5,030	594,721	0	0
Witco Corp., Friendly, Tyler	537,645	13,998	0	0	2,514	0	554,157	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
American Electric Power, John E. Amos Plant, Winfield, Putnam	16,709,646	7,865	0	0	0	791,455	17,508,966	1,489,498	0
American Electric Power, Mitchell Plant, Moundsville, Marshall	13,075,320	13,766	0	0	0	1,405,249	14,494,335	5,809	0
American Electric Power, Mountaineer Plant, New Haven, Mason	8,052,903	4,454	0	0	0	1,162,478	9,219,835	5	1,055
Mt. Storm Power Station, Mount Storm, Grant	5,732,651	4,106	0	0	0	1,774,000	7,510,757	0	0
American Electric Power, Philip Sporn Plant, New Haven, Mason	5,071,756	1,945	0	0	0	1,057,865	6,131,566	0	87
American Electric Power, Kammer Plant, Moundsville, Marshall	3,726,119	43,309	0	0	0	333,570	4,102,998	2,126	0
Fort Martin Power Station, Maidsville, Monongalia	3,685,621	1,505	0	0	0	358,450	4,045,576	0	0
American Electric Power, Kanawha River Plant, Glasgow, Kanawha	2,981,636	814	0	0	0	30	2,982,480	256,368	0
American Bituminous Power Partners, Grant Town, Marion	1,338,797	80	18	0	0	1,506,400	2,845,295	86,000	0
Harrison Power Station, Haywood, Harrison	264,375	2,800	0	0	0	2,032,000	2,299,175	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

WEST VIRGINIA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Weirton Steel Corp., Weirton, Hancock	50,463	0	0	0	236,309	201,605	4,090,978	4,579,355	9,000
Bayer Corp., New Martinsville, Marshall	0	19,967	1,094,388	978,944	4,502,157	12,704	3,222,913	9,831,073	258
Du Pont Belle Plant, Belle, Kanawha	960,000	0	253,610	800,180	4,930,600	88,922	3,180,354	10,213,666	0
Du Pont Washington Works, Washington, Wood	1,450,476	92,241	0	0	22,755,264	148,867	2,169,972	26,616,820	13,998
Cytec Inds. Inc., Willow Island, Pleasants	21,435,000	0	0	1,201,000	6,156,550	0	1,103,485	29,896,035	0
Columbian Chemicals Co., Proctor, Marshall	0	0	0	0	370,000	0	1,090,000	1,460,000	0
U.S. Can Co., Plant #20 Weirton, Weirton, Brooke	0	282,664	0	43,737	0	0	1,071,434	1,397,835	0
American Woodmark Corp., Moorefield, Hardy	100,737	0	0	120,694	0	0	766,080	987,511	0
Shell Chemical Co., Apple Grove, Mason	0	0	0	0	5,779,238	0	707,543	6,486,781	0
GE Co., Washington, Wood	0	0	0	95,803	1,287,700	1,643	589,438	1,974,584	20

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
American Electric Power, John E. Amos Plant, Winfield, Putnam	0	205,000	0	0	1,400,000	0	18,993,000	20,598,000	0
American Electric Power, Mitchell Plant, Moundsville, Marshall	0	36,200	0	0	850,000	0	14,487,600	15,373,800	0
American Electric Power, Mountaineer Plant, New Haven, Mason	0	38,000	0	0	550,000	0	9,224,300	9,812,300	0
Mt. Storm Power Station, Mount Storm, Grant	0	0	0	0	2,270,000	0	7,511,000	9,781,000	0
American Electric Power, Philip Sporn Plant, New Haven, Mason	0	1,306	0	0	1,200,000	0	6,133,900	7,335,206	0
American Electric Power, Kammer Plant, Moundsville, Marshall	0	23,800	0	0	0	0	4,109,500	4,133,300	0
Fort Martin Power Station, Maidsville, Monongalia	0	0	0	0	0	0	4,040,670	4,040,670	0
American Electric Power, Kanawha River Plant, Glasgow, Kanawha	0	20,200	0	0	240,000	0	3,238,000	3,498,200	0
American Bituminous Power Partners, Grant Town, Marion	0	0	0	0	0	0	2,929,700	2,929,700	0
Harrison Power Station, Haywood, Harrison	0	0	0	0	0	0	2,296,000	2,296,000	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

WISCONSIN

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	30,188,927	15,556,355	45,745,282
Air Emissions	25,035,473	13,770,905	38,806,378
Surface Water Discharges	3,711,391	25,908	3,737,299
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	842	0	842
Other On-site Land Releases	1,441,221	1,759,542	3,200,763
Off-site Releases (Transfers Off-site to Disposal)*	12,689,941	2,297,019	14,986,960
Total On- and Off-site Releases	42,878,868	17,853,374	60,732,242
Recycled On-site	60,149,181	12,362,308	72,511,489
Recycled Off-site	54,941,089	472,230	55,413,319
Energy Recovery On-site	10,932,984	0	10,932,984
Energy Recovery Off-site	17,504,954	4,433,731	21,938,685
Treated On-site	115,987,625	2,208,095	118,195,720
Treated Off-site**	17,267,203	2,168,961	19,436,164
Quantity Released On- and Off-site***	40,616,199	17,804,042	58,420,241
Total Production-related Waste Managed	317,399,235	39,449,367	356,848,602
Total Non-production-related Waste Managed	36,926	1,512	38,438

Transfers Off-site for Further Waste Management/Disposal

Recycling	53,936,438	3,089,108	57,025,546
Energy Recovery	17,657,234	1,836,490	19,493,724
Treatment	9,870,270	1,793,786	11,664,056
Publicly Owned Treatment Works (POTWs)	5,283,136	1,204	5,284,340
Metals and Metal Compounds*	82,928	5	82,933
Non-metal TRI Chemicals**	5,200,208	1,199	5,201,407
Other Off-site Transfers****	6,410	0	6,410
Off-site Transfers to Disposal *(not including metals to POTWs)*	13,508,837	2,297,020	15,805,857
Total Transfers Off-site for Further Waste Management/Disposal	100,262,325	9,017,608	109,279,933

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*
*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*
**** *Transfers reported without a valid waste management code.*

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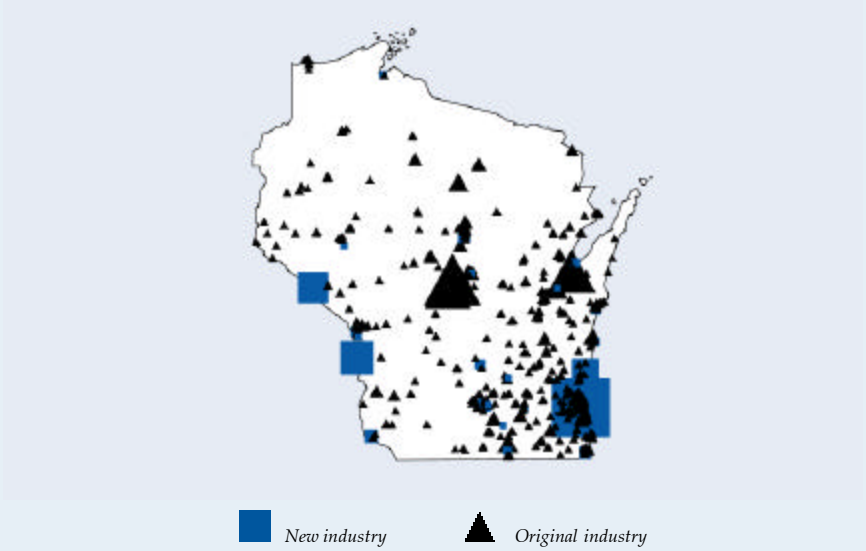

The largest marker in the state map represents the largest facility for on-site releases in the state of Wisconsin. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	5,223,500
Square Miles	54,314
Total Facilities	897
Total Forms	2,857
Form As	436

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	20	31	28
Pounds	42,878,868	17,853,374	60,732,242
National Rank for Total On-site Releases**			
Rank	24	31	29
Pounds	30,188,927	15,556,355	45,745,282
National Rank for Total Releases within State***			
Rank	20	31	28
Pounds	45,119,733	17,895,885	63,015,618
National Rank for Production-related Waste Managed			
Rank	24	28	24
Pounds	317,399,235	39,449,367	356,848,602

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*
** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*
*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

WISCONSIN

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
67-56-1	Methanol	5,152,836	175,035	0	14,282	7,863	5,350,016	0	7,461	402
—	Nitrate compounds	704	3,284,373	0	164,853	450,346	3,900,276	5,400	450,266	80
7439-96-5	Manganese	108,476	11,003	0	17,100	3,167,174	3,303,753	26,057	3,166,343	831
—	Manganese compounds	52,215	39,675	0	433,929	2,346,355	2,872,174	366,109	1,945,312	401,793
108-88-3	Toluene	2,275,893	0	0	2	45,580	2,321,475	9,072	34,845	10,735
—	Glycol ethers	2,081,729	2,171	0	4	41,275	2,125,179	5	28,418	12,857
7664-93-9	Sulfuric acid	2,062,074	0	0	0	14,800	2,076,874	122,202	0	14,800
1330-20-7	Xylene (mixed isomers)	1,908,687	0	0	2	3,274	1,911,963	1,247	338	2,936
—	Zinc compounds	119,726	5,706	0	463,532	1,322,817	1,911,781	706,069	623,433	699,384
7440-47-3	Chromium	12,523	530	0	18,609	1,690,712	1,722,374	11,170	1,646,193	44,519

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	11,008,010	0	0	0	0	11,008,010	0	0	0
—	Zinc compounds	69,498	5,741	0	406,652	1,238,246	1,720,137	779	1,232,776	5,470
—	Barium compounds	36,502	166	0	876,175	595,381	1,508,224	15	587,851	7,530
7664-93-9	Sulfuric acid	1,410,497	0	0	0	20,000	1,430,497	0	20,000	0
7664-39-3	Hydrogen fluoride	1,022,201	0	0	28	0	1,022,229	0	0	0
7440-39-3	Barium	811	2,120	0	310,000	14,000	326,931	43,182	14,000	0
—	Manganese compounds	3,866	388	0	28,005	159,767	192,026	10	159,767	0
—	Copper compounds	5,600	858	0	32,052	127,669	166,179	26	127,669	0
7664-41-7	Ammonia	142,971	0	0	0	0	142,971	0	0	0
—	Cobalt compounds	1,015	0	0	7,111	36,500	44,626	0	36,500	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

WISCONSIN

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers to Disposal): Transferred Out of State Pounds
CPI — Kraft Div., Wisconsin Rapids, Wood	2,912,460	1,300	0	0	0	237,000	3,150,760	94,772	0
Fort James Operating Co., Green Bay, Brown	1,253,750	1,301,550	0	0	0	0	2,555,300	67,050	0
Georgia-Pacific Corp., Nekoosa Mill, Nekoosa, Wood	1,463,714	804,638	0	0	0	152,246	2,420,598	0	0
GMTG — Janesville Assembly, Janesville, Rock	781,084	0	0	0	0	0	781,084	4,100	16,270
Packaging Corp. of America, Tomahawk, Lincoln	256,452	22,262	0	0	0	472,750	751,464	0	0
Thilmany, Kaukauna, Outagamie	513,846	75,069	0	0	0	135,062	723,977	0	0
Georgia-Pacific Corp., Port Edwards Mill, Port Edwards, Wood	303,600	387,487	0	0	0	20,200	711,287	0	0
Uniroyal Engineered Prods., Stoughton, Dane	523,768	0	0	0	0	0	523,768	11,000	0
Wausau-Mosinee Paper Corp., Brokaw, Marathon	457,495	4,220	0	0	0	1,544	463,259	0	0
Rhinelander Paper Co., Rhinelander, Oneida	430,732	34	0	0	0	0	430,766	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection: Class I Wells Pounds	On-site Releases: Underground Injection: Class II-V Wells Pounds	On-site Releases: On-site Releases to Land: RCRA Subtitle C Landfills Pounds	On-site Releases: On-site Releases to Land: Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Off-site Releases (Transfers to Disposal): Transferred Within State Pounds	Off-site Releases (Transfers to Disposal): Transferred Out of State Pounds
Oak Creek Power Plant, Oak Creek, Milwaukee	3,770,630	5,978	0	0	0	392,200	4,168,808	0	0
Dairyland Power Cooperative — Genoa Site, Genoa, Vernon	2,131,520	1	0	0	0	20	2,131,541	21,500	0
Dairyland Power Cooprative — Alma Site, Alma, Buffalo	1,860,511	875	0	0	0	91,254	1,952,640	370,000	0
Valley Power Plant, Milwaukee, Milwaukee	1,879,047	1,459	0	0	0	0	1,880,506	36,800	0
Port Washington Power Plant, Port Washington, Ozaukee	1,689,027	3,500	0	0	0	0	1,692,527	12,400	0
Pulliam Power Plant, Green Bay, Brown	107,644	66	0	0	0	416,000	523,710	5	0
Nelson Dewey Generating Station, Cassville, Grant	118,060	500	0	0	0	382,800	501,360	0	0
Pleasant Prairie Power Plant, Pleasant Prairie, Kenosha	391,872	6,785	0	0	0	0	398,657	0	0
Weston Power Plant, Rothschild, Marathon	145,613	6	0	0	0	250,000	395,619	0	0
Northern States Power Co. — Wisconsin (French Island), La Crosse, La Crosse	356,772	250	0	0	0	0	357,022	96,613	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

WISCONSIN

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
CPI — Kraft Div., Wisconsin Rapids, Wood	0	0	2,469,650	0	1,295,000	6,960,340	3,244,610	13,969,600	0
Fort James Operating Co., Green Bay, Brown	0	62,922	0	0	262,960	0	2,620,170	2,946,052	0
Georgia-Pacific Corp., Nekoosa Mill, Nekoosa, Wood	0	0	2,070,300	0	3,248,180	0	2,423,033	7,741,513	0
Grede Foundries Inc., Milwaukee Steel Div., Milwaukee, Milwaukee	0	0	0	0	0	0	1,502,979	1,502,979	0
Maynard Steel Casting Co., Milwaukee, Milwaukee	0	88,783	0	0	0	0	1,468,837	1,557,620	0
Waupaca Fndy. Inc., Plant 2/3, Waupaca, Waupaca	0	805,240	0	0	122,300	8,980	1,280,196	2,216,716	0
GMTG — Janesville Assembly, Janesville, Rock	0	1,317,831	0	0	436,751	100,900	791,870	2,647,352	0
Packaging Corp. of America, Tomahawk, Lincoln	0	0	0	0	802,172	0	751,467	1,553,639	0
Thilmany, Kaukauna, Outagamie	0	0	351,000	0	2,802,200	0	723,020	3,876,220	0
Georgia-Pacific Corp., Port Edwards Mill, Port Edwards, Wood	0	0	8,200	0	1,500,000	0	710,600	2,218,800	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Oak Creek Power Plant, Oak Creek, Milwaukee	0	0	0	0	0	0	4,168,400	4,168,400	0
Dairyland Power Cooprative — Alma Site, Alma, Buffalo	0	0	0	0	0	0	2,326,000	2,326,000	0
Dairyland Power Cooperative — Genoa Site, Genoa, Vernon	0	0	0	0	0	0	2,153,000	2,153,000	0
Valley Power Plant, Milwaukee, Milwaukee	0	0	0	0	0	0	1,917,200	1,917,200	0
Port Washington Power Plant, Port Washington, Ozaukee	0	0	0	0	0	0	1,708,800	1,708,800	0
Edgewater Generating Station, Sheboygan, Sheboygan	0	0	0	0	0	0	1,201,710	1,201,710	0
Manitowoc Public Utilities, Manitowoc, Manitowoc	0	0	0	0	0	355,430	666,688	1,022,118	0
Pulliam Power Plant, Green Bay, Brown	0	0	0	0	1,256,000	0	523,100	1,779,100	0
Nelson Dewey Generating Station, Cassville, Grant	0	0	0	0	0	0	501,492	501,492	6
Northern States Power Co. — Wisconsin (French Island), La Crosse, La Crosse	0	0	0	0	73,746	0	452,988	526,734	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

1998 Toxics Release Inventory

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Reported Releases and Waste Management Activities (in pounds)

	Original Industries	*New Industries*	*Total*
On-site Releases	9,412,637	12,174,782	21,587,419
Air Emissions	1,708,858	2,270,618	3,979,476
Surface Water Discharges	6,325	12,647	18,972
Underground Injection Class I Wells	7,656,300	0	7,656,300
Underground Injection Class II-V Wells	505	0	505
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	40,649	9,891,517	9,932,166
Off-site Releases (Transfers Off-site to Disposal)*	25,026	1,169,392	1,194,418
Total On- and Off-site Releases	9,437,663	13,344,174	22,781,837
Recycled On-site	1,548,983	0	1,548,983
Recycled Off-site	105,056	307,000	412,056
Energy Recovery On-site	45,655	0	45,655
Energy Recovery Off-site	10,664	0	10,664
Treated On-site	2,976,520	1,560,100	4,536,620
Treated Off-site**	178	0	178
Quantity Released On- and Off-site***	9,412,762	13,758,563	23,171,325
Total Production-related Waste Managed	14,099,818	15,625,663	29,725,481
Total Non-production-related Waste Managed	19,417	0	19,417

Transfers Off-site for Further Waste Management/Disposal

Recycling	105,056	307,000	412,056
Energy Recovery	9,920	0	9,920
Treatment	432	0	432
Publicly Owned Treatment Works (POTWs)	275	0	275
Metals and Metal Compounds*	20	0	20
Non-metal TRI Chemicals**	255	0	255
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal *(not including metals to POTWs)*	25,007	1,169,392	1,194,399
Total Transfers Off-site for Further Waste Management/Disposal	140,690	1,476,392	1,617,082

* *Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Transfers to POTWs of non-metals are included in treated off-site waste management activity.*

*** *Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.*

**** *Transfers reported without a valid waste management code.*

For More Information . . .

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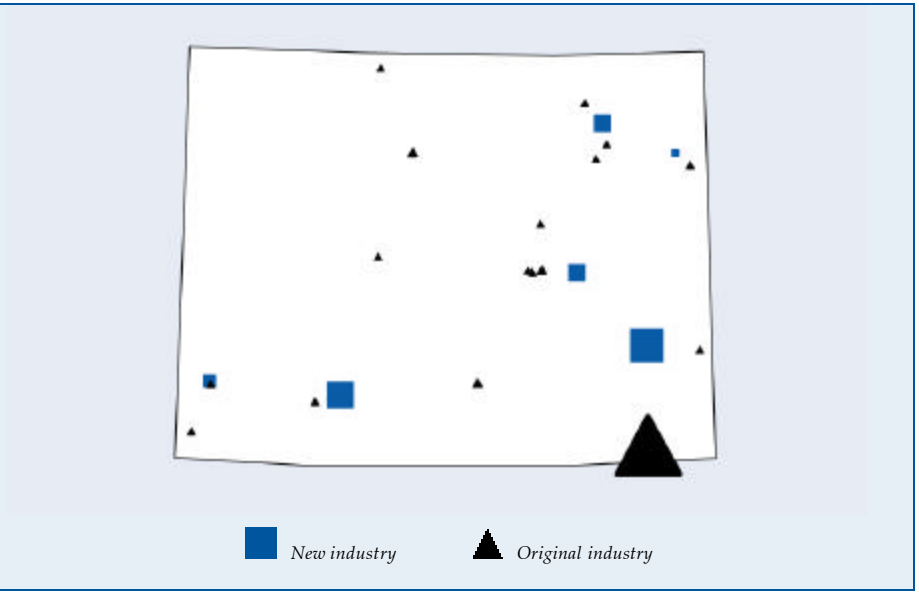
To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Wyoming. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	480,907
Square Miles	97,105
Total Facilities	35
Total Forms	222
Form As	19

	Original Industries	*New Industries*	*Total*
National Rank for Total On- and Off-site Releases*			
Rank	38	34	40
Pounds	9,437,663	13,344,174	22,781,837
National Rank for Total On-site Releases**			
Rank	36	34	40
Pounds	9,412,637	12,174,782	21,587,419
National Rank for Total Releases within State***			
Rank	38	35	40
Pounds	9,418,450	13,346,133	22,764,583
National Rank for Production-related Waste Managed			
Rank	47	39	49
Pounds	14,099,818	15,625,663	29,725,481

* *Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.*

** *Includes amounts released at the facility. Excludes amounts transferred to other sites.*

*** *Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.*

1998 Toxics Release Inventory

WYOMING

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Nitrate compounds	0	322	7,300,000	250	0	7,300,572	0	0	0
7664-41-7	Ammonia	583,762	4,933	306,000	6,855	0	901,550	0	0	0
110-54-3	n-Hexane	167,798	10	0	6,460	2,318	176,586	0	5	2,313
71-36-3	n-Butyl alcohol	146,371	0	0	0	0	146,371	0	0	0
—	Glycol ethers	133,883	0	0	0	0	133,883	0	0	0
108-88-3	Toluene	95,611	260	0	10,291	5,302	111,464	0	5	5,297
7664-93-9	Sulfuric acid	108,597	0	0	0	0	108,597	0	0	0
1330-20-7	Xylene (mixed isomers)	92,533	260	250	9,695	5,659	108,397	0	0	5,659
115-07-1	Propylene	75,923	0	0	0	0	75,923	0	0	0
74-85-1	Ethylene	61,085	0	0	0	0	61,085	0	0	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases: Air Emissions Pounds	On-site Releases: Surface Water Discharges Pounds	On-site Releases: Underground Injection Pounds	On-site Releases: On-site Releases to Land Pounds	Off-site Releases: Transfers Off-site to Disposal* Pounds	Total Releases in the State** Pounds	Off-site Transfers to Disposal: Transferred Into State Pounds	Off-site Transfers to Disposal: Transferred Within State Pounds	Off-site Transfers to Disposal: Transferred Out of State Pounds
—	Barium compounds	32,541	7,232	0	6,551,900	936,064	7,527,737	970	936,064	0
—	Manganese compounds	11,689	4,367	0	1,481,672	62,359	1,560,087	0	62,359	0
7664-39-3	Hydrogen fluoride	1,086,905	5	0	100,000	0	1,186,910	0	0	0
7647-01-0	Hydrochloric acid	737,200	0	0	0	0	737,200	0	0	0
—	Copper compounds	2,448	323	0	520,587	56,317	579,675	0	56,317	0
7664-93-9	Sulfuric acid	353,000	0	0	0	0	353,000	0	0	0
—	Zinc compounds	7,053	282	0	265,474	61,356	334,165	0	61,356	0
—	Chromium compounds	4,240	179	0	215,336	27,145	246,900	0	27,145	0
—	Lead compounds	4,996	59	0	165,550	0	170,605	0	0	0
—	Nickel compounds	3,951	9	0	110,150	26,151	140,261	0	26,151	0

* *Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.*
** *The chemical ranking is based on the amounts in this column.*

1998 Toxics Release Inventory

WYOMING

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Coastal Chem Inc., Cheyenne, Laramie	378,150	0	7,656,300	0	0	240	8,034,690	0	0
Sinclair Oil Corp., Sinclair, Carbon	278,021	0	0	0	0	29,264	307,285	0	0
Crown Cork & Seal Co. Inc., Worland, Washakie	280,254	0	0	0	0	0	280,254	143	0
Little America Refining Co., Casper, Natrona	170,038	0	0	0	0	0	170,038	5,625	18,855
SF Phosphates Ltd. Co., Rock Springs, Sweetwater	146,621	0	0	0	0	0	146,621	0	0
Wyoming Refining Co., Newcastle, Weston	92,923	70	0	0	0	1,540	94,533	30	0
Holly Sugar Corp., Worland, Washakie	89,600	0	0	0	0	3,700	93,300	0	0
Frontier Refining Inc., Cheyenne, Laramie	79,340	326	0	0	0	0	79,666	0	0
Holly Sugar Corp., Torrington Factory, Torrington, Goshen	70,700	0	0	0	0	2,920	73,620	0	0
FMC Corp., Kemmerer Plant, Kemmerer, Lincoln	66,440	0	0	0	0	0	66,440	0	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

	On-site Releases							Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land				
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Laramie River Station, Wheatland, Platte	1,428,098	0	0	0	0	2,925,740	4,353,838	0	0
Jim Bridger Power Plant/ Bridger Coal Co., Point of Rocks, Sweetwater	272,838	0	0	0	0	2,990,277	3,263,115	0	0
Neil Simpson Complex, Gillette, Campbell	17,129	10	0	0	0	1,682,000	1,699,139	0	0
Pacificorp — Dave Johnston Plant, Glenrock, Converse	242,434	10,646	0	0	0	1,436,000	1,689,080	0	0
Pacificorp, Naughton Power Plant, Kemmerer, Lincoln	238,964	1,500	0	0	0	696,000	936,464	0	0
BHPL — Osage Power Plant, Osage, Weston	26,724	398	0	0	0	161,500	188,622	0	0
Wyodak Plant, Gillette, Campbell	44,431	93	0	0	0	0	44,524	1,169,392	0

**The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.*

1998 Toxics Release Inventory

WYOMING

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Coastal Chem Inc., Cheyenne, Laramie	0	36,000	0	0	0	0	8,035,199	8,071,199	0
Sinclair Oil Corp., Sinclair, Carbon	157,949	0	22,151	0	506,994	0	307,348	994,442	19,416
Crown Cork & Seal Co. Inc., Worland, Washakie	0	0	0	0	68,000	7	280,140	348,147	0
Little America Refining Co., Casper, Natrona	1,205,031	0	0	0	0	0	172,446	1,377,477	0
SF Phosphates Ltd. Co., Rock Springs, Sweetwater	0	0	0	0	0	0	146,621	146,621	0
Holly Sugar Corp., Worland, Washakie	0	0	0	0	0	0	93,300	93,300	0
Frontier Refining Inc., Cheyenne, Laramie	3,699	0	0	2,994	482,491	0	79,666	568,850	0
Wyoming Refining Co., Newcastle, Weston	2,290	0	0	0	74,516	1	77,154	153,961	0
Holly Sugar Corp., Torrington Factory, Torrington, Goshen	0	0	0	0	0	0	73,620	73,620	0
FMC Corp., Kemmerer Plant, Kemmerer, Lincoln	0	0	20,610	0	1,830,000	0	67,130	1,917,740	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Laramie River Station, Wheatland, Platte	0	0	0	0	0	0	4,372,000	4,372,000	0
Jim Bridger Power Plant/ Bridger Coal Co., Point of Rocks, Sweetwater	0	307,000	0	0	648,000	0	3,551,000	4,506,000	0
Neil Simpson Complex, Gillette, Campbell	0	0	0	0	121,000	0	1,801,563	1,922,563	0
Pacificorp — Dave Johnston Plant, Glenrock, Converse	0	0	0	0	144,000	0	1,688,000	1,832,000	0
Wyodak Plant, Gillette, Campbell	0	0	0	0	168,000	0	1,218,000	1,386,000	0
Pacificorp, Naughton Power Plant, Kemmerer, Lincoln	0	0	0	0	435,000	0	930,000	1,365,000	0
BHPL — Osage Power Plant, Osage, Weston	0	0	0	0	44,100	0	198,000	242,100	0

**The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.*