



1998 Toxic Release Inventory (TRI) Press Materials

TRI



1998 Toxics Release Inventory Press Materials

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This information packet contains charts and tables which summarize the 1998 toxic chemical release and other waste management data reported to EPA's Toxics Release Inventory (TRI) Program under the Emergency Planning and Community Right to Know Act (EPCRA) and the Pollution Prevention Act (PPA). The Toxics Release Inventory (TRI) data is summarized from a national perspective as well as by State and by industry. The TRI provides the public with information on toxic chemical releases from industrial facilities in their communities. Users should review the scope of the data and factors to consider when using the TRI information. Since this data reflects releases for 1998, users concerned about the most current information on facility releases in their communities should check with those facilities directly since technological and process changes could have altered their release estimates since 1998.

There are now approximately 650 chemicals and chemical categories for which reporting is required under the Toxics Release Inventory Program. From 1987 through 1997 only manufacturing facilities were required to report their releases and other waste management to TRI. 1998 marks the first year of reporting from a new group of industries that must now report as well. These new industries include metal mines, coal mines, electrical utilities, commercial hazardous waste treatment facilities, chemical wholesalers, petroleum bulk terminals, and solvent recovery services. Federal facilities have been required to report their releases since 1994.

Citizens can access TRI information on toxic chemical releases and other waste management from particular facilities, in particular communities, and by individual chemical through the TRI web site at <http://www.epa.gov/tri>. The TRI web site provides links to TRI data access tools, including a new, user-friendly tool called the TRI EXPLORER. The web site also includes information on TRI requirements, chemicals reported, TRI reports, chemical hazard information, and contacts.

Understanding the Scope of TRI Data and Factors to Consider When Using TRI Data

The TRI Program has given the public unprecedented direct access to toxic chemical release and other waste management data at the local, state, regional, and national level. Use of this information can enable the public to identify potential concerns, gain a better understanding of potential risks, and work with industry and government to reduce toxic chemical releases and the risks associated with them. When combined with hazard and exposure data, this information can allow informed environmental priority-setting at the local level.

Federal, state, and local governments can use the data to compare facilities or geographic areas, to identify hot spots, to evaluate existing environmental programs, to more effectively set regulatory priorities, and to track pollution control and waste reduction progress. TRI data, in conjunction with demographic data, can help government agencies and the public identify potential environmental justice concerns.

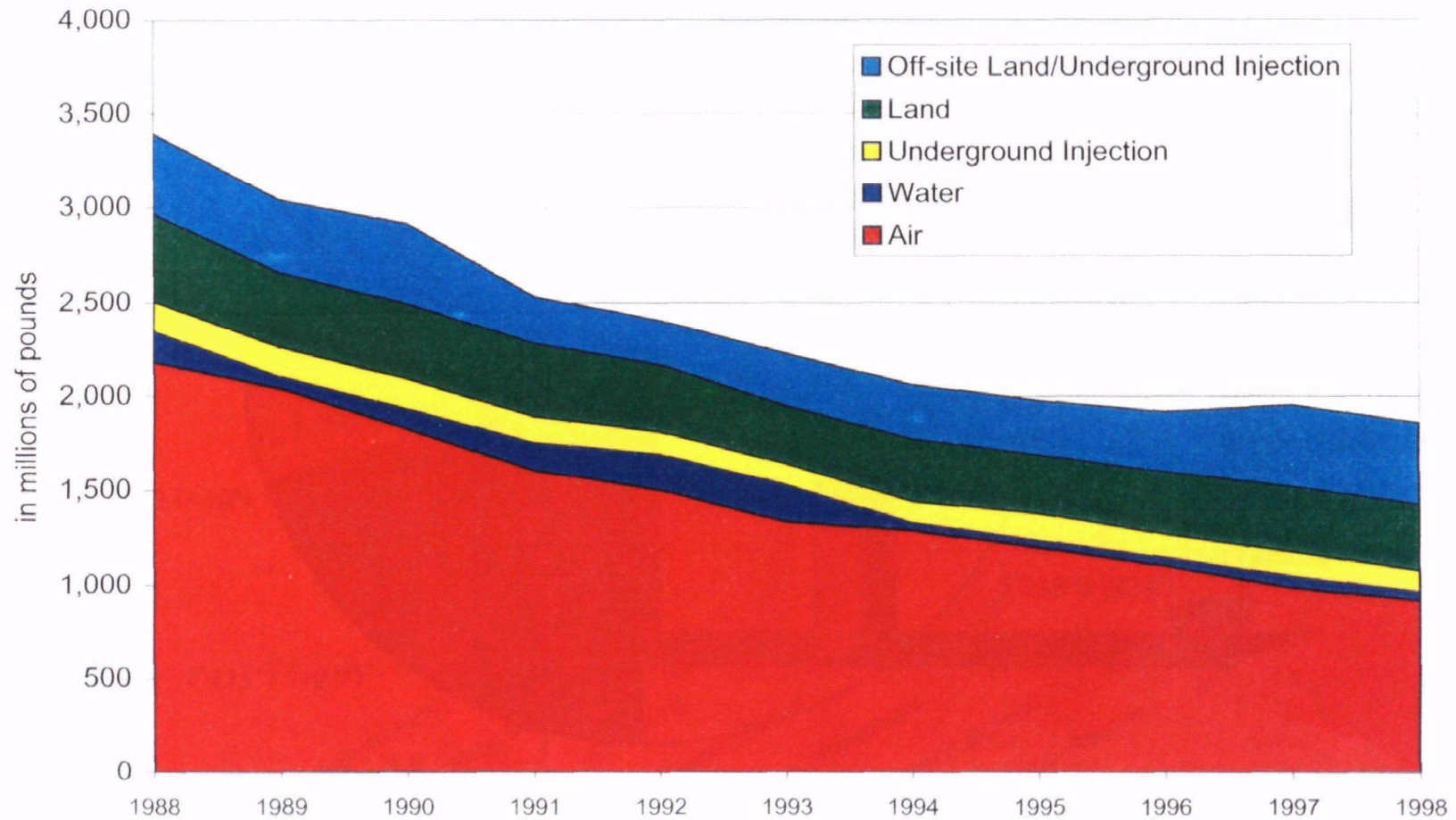
Industry can use the data to obtain an overview of the release and other waste management of toxic chemicals, to identify and reduce costs associated with toxic chemicals in waste, to identify promising areas of pollution prevention, to establish reduction targets, and to measure and document progress toward reduction goals. Public availability of the data has prompted many facilities to work with communities to develop effective strategies for reducing environmental and human health risks posed by toxic chemical releases.

While the TRI data provides the public, industry, and state and local governments with an invaluable source of key environmental data, there are some factors that should be considered when using the TRI data:

- Users of TRI information should be aware that TRI data reflect releases and other waste management of chemicals, not the exposures or the risk to the public from those releases or other wastes. Release estimates alone are not sufficient to determine exposure or to calculate potential adverse effects on human health and the environment. Other exposure and hazard data, in conjunction with TRI data, should be used to estimate risks. This other information includes chemical form, the stability of the chemical in the environment, the potential for bioaccumulation, the environmental medium (e.g., air or water) to which the chemical is released, potential degradation or persistence of the chemical in the environment, populations or species exposed, level of exposure, and hazard information. Hazard data simply indicates whether a chemical can cause an adverse effect on human health or the environment, and therefore, cannot be used without other key exposure-related information to estimate the risks associated with chemical releases.
- Data is only collected from certain industrial sectors, including manufacturers, metal mining, coal mining, electric utilities, petroleum bulk terminals, chemicals wholesalers, RCRA commercial hazardous waste treatment, and solvent recovery; federal facilities report to TRI regardless of their industrial classification. Although TRI is successful in capturing information on a significant portion of toxic chemicals currently being used by covered industry sectors, it does not cover all toxic chemicals or all industry sectors. For instance, TRI does not include toxic emissions from cars and trucks, nor from the majority of sources of releases of pesticides, volatile organic compounds, fertilizers and many other non-industrial sources.
- Facilities report estimated data to TRI, and the program does not mandate that they monitor their releases. Various estimation techniques are used when monitoring data are not available, and EPA has published estimation guidance for the regulated community. Variations between facilities can result from the use of different estimation methodologies. These factors should be taken into account when considering data accuracy and comparability.
- The TRI report alone does not indicate whether the facility's release is legal. These releases must be compared with applicable permits to evaluate whether the facility is in compliance with other environmental regulations. Many of the releases included in the TRI report are permitted by EPA and State Regulatory Agencies.

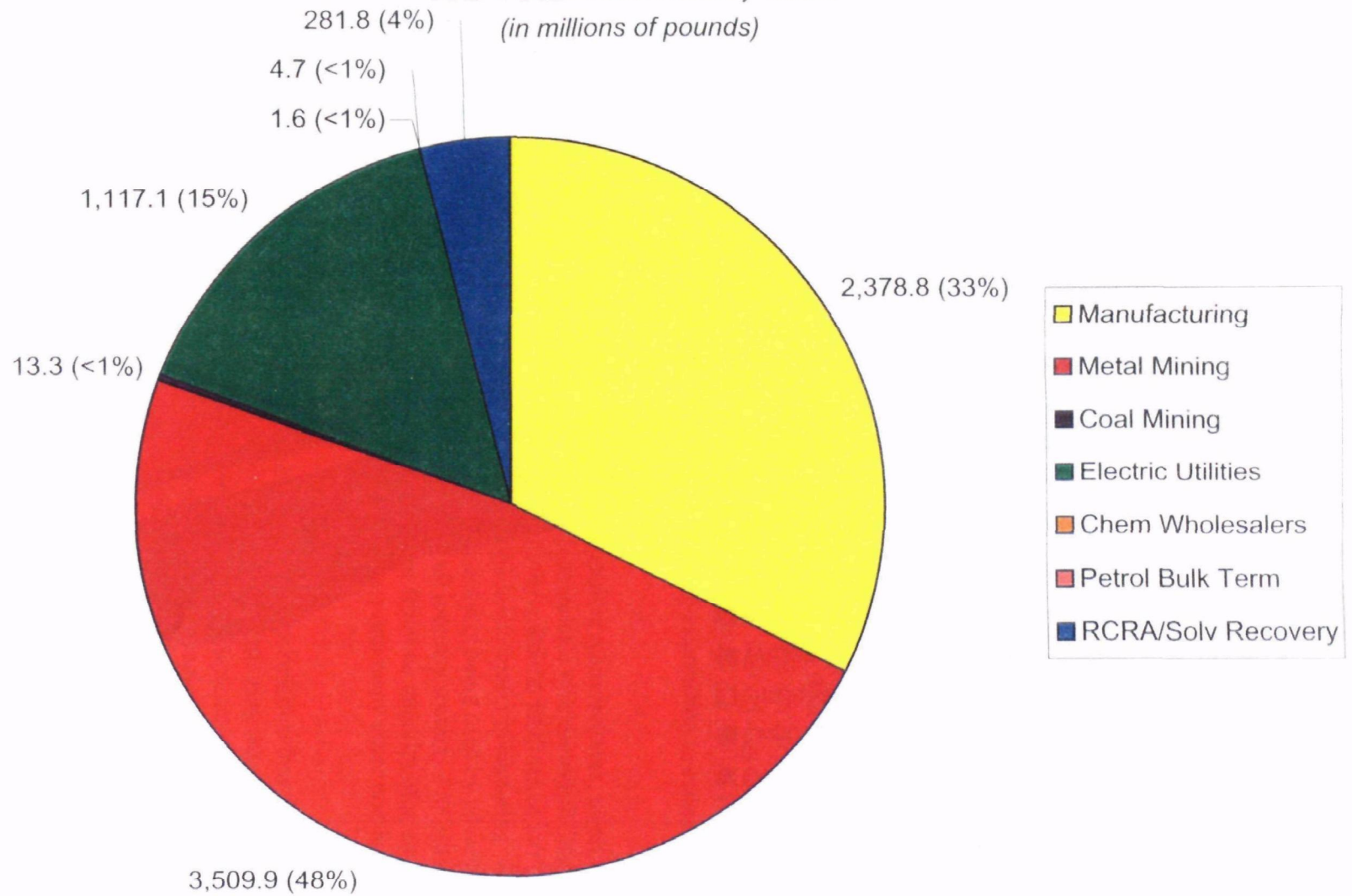
TRI Releases, 1988-1998

(using the 1988 core set of chemicals and manufacturing sectors)

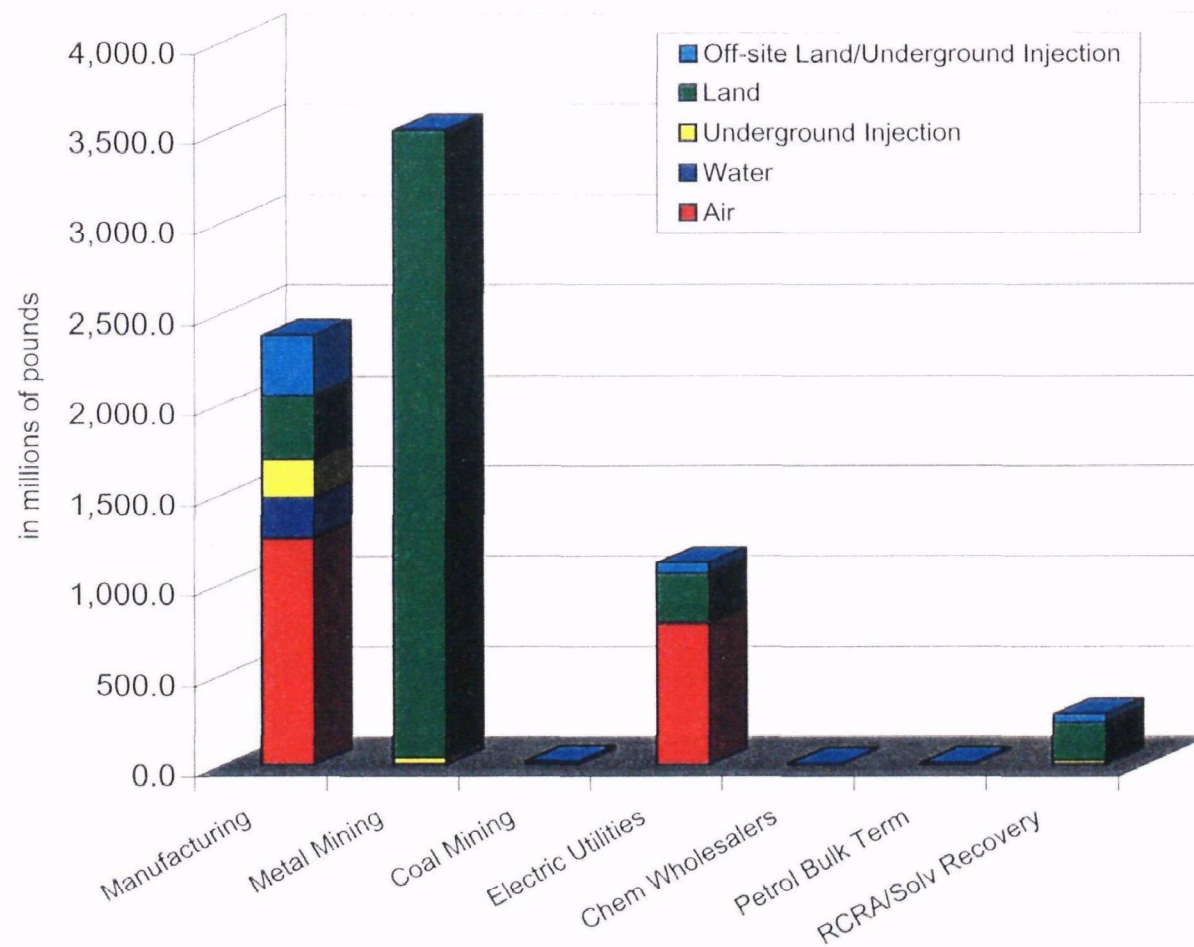


TRI Total Releases, 1998

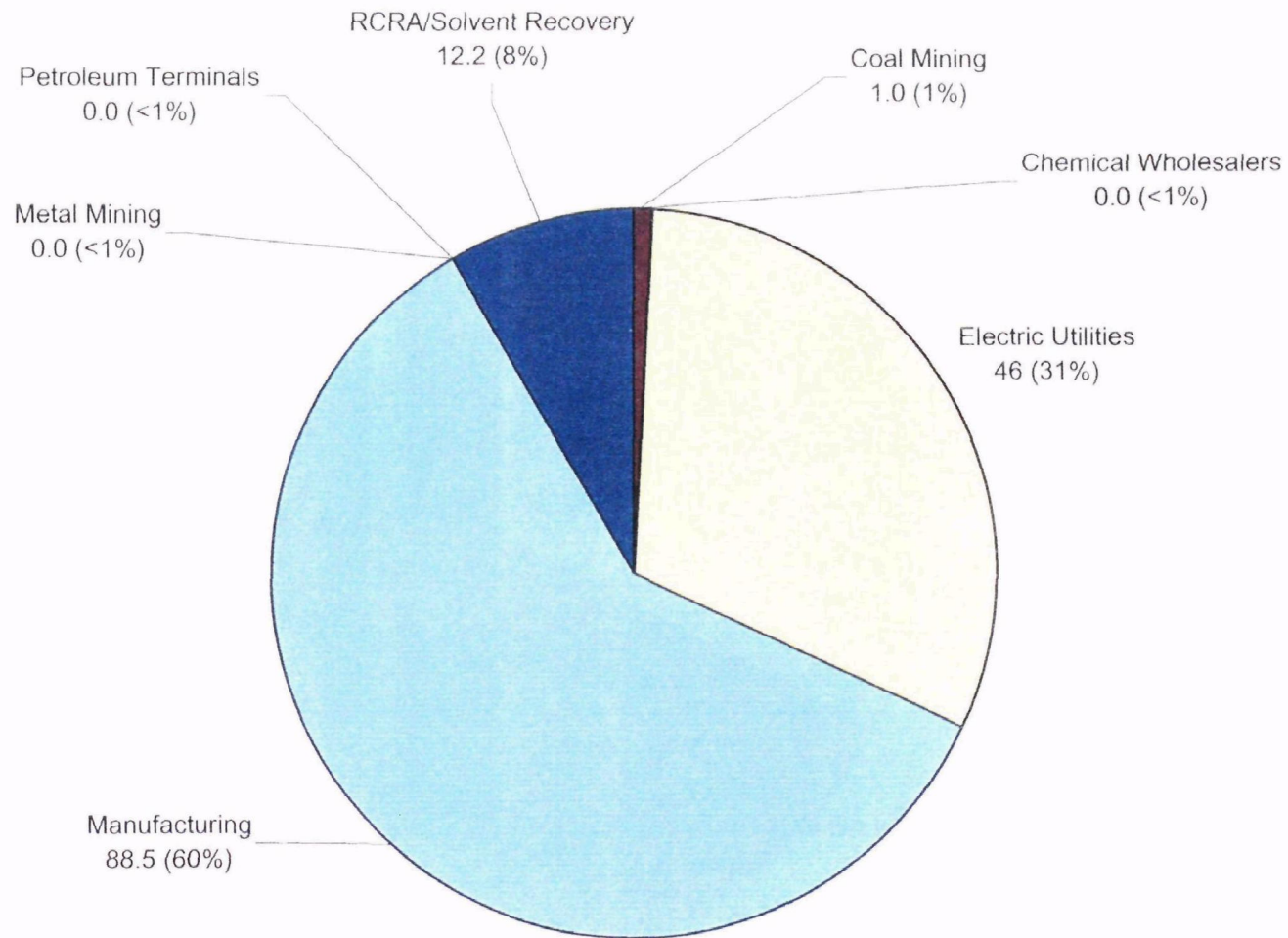
(in millions of pounds)



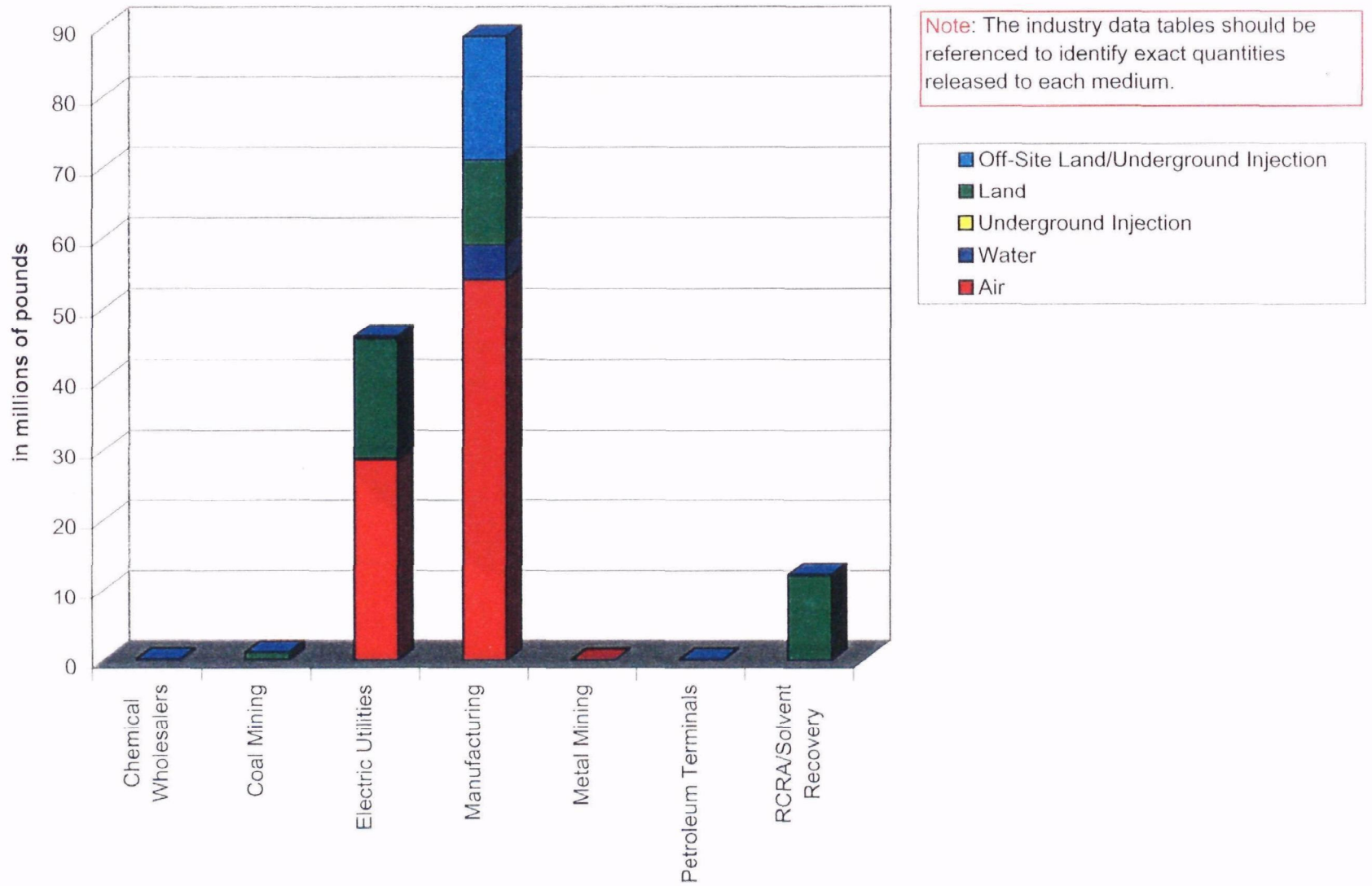
TRI Total Releases, 1998



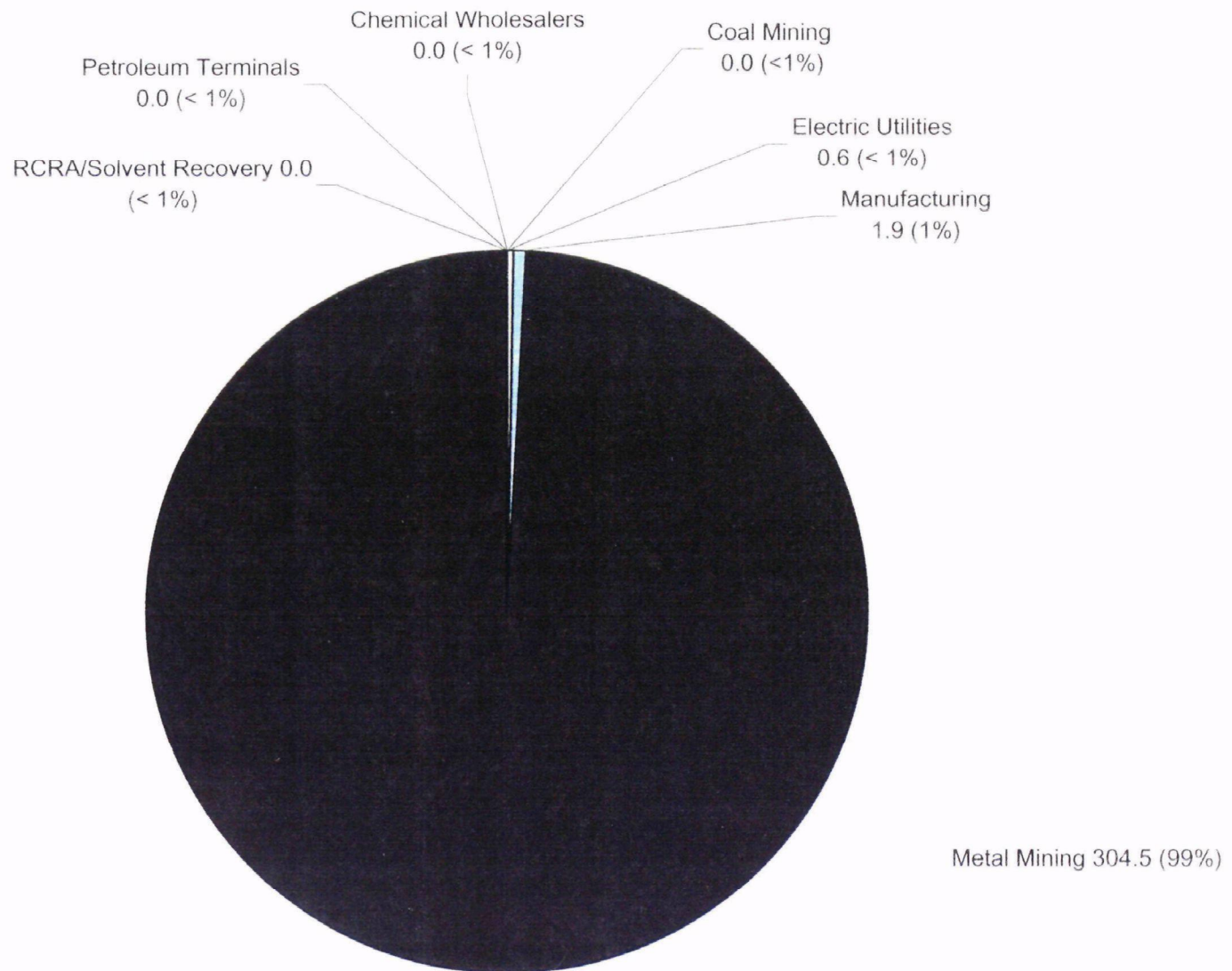
TRI Releases for Alabama, 1998
(in millions of pounds)



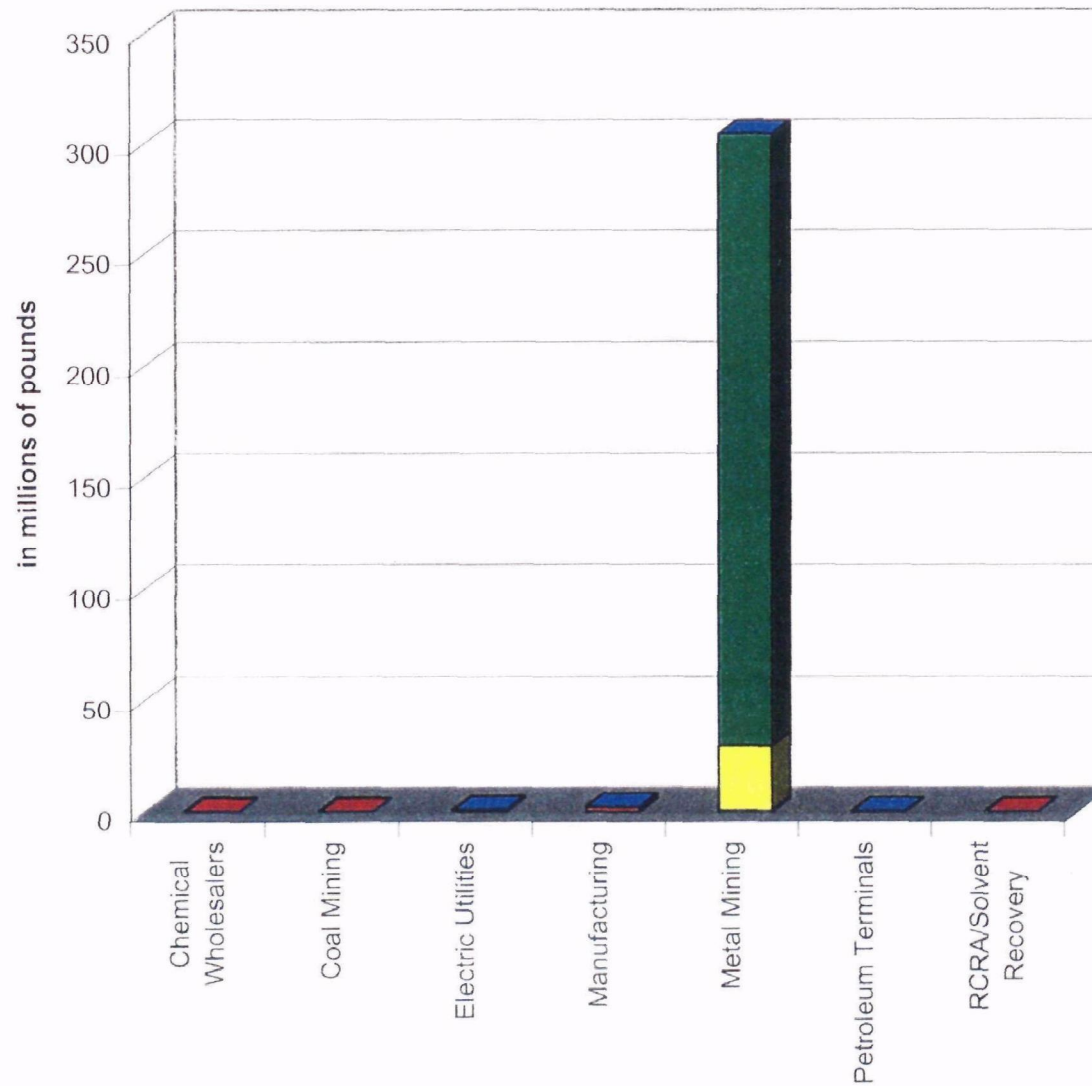
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TRI Releases for Alaska, 1998
(in millions of pounds)



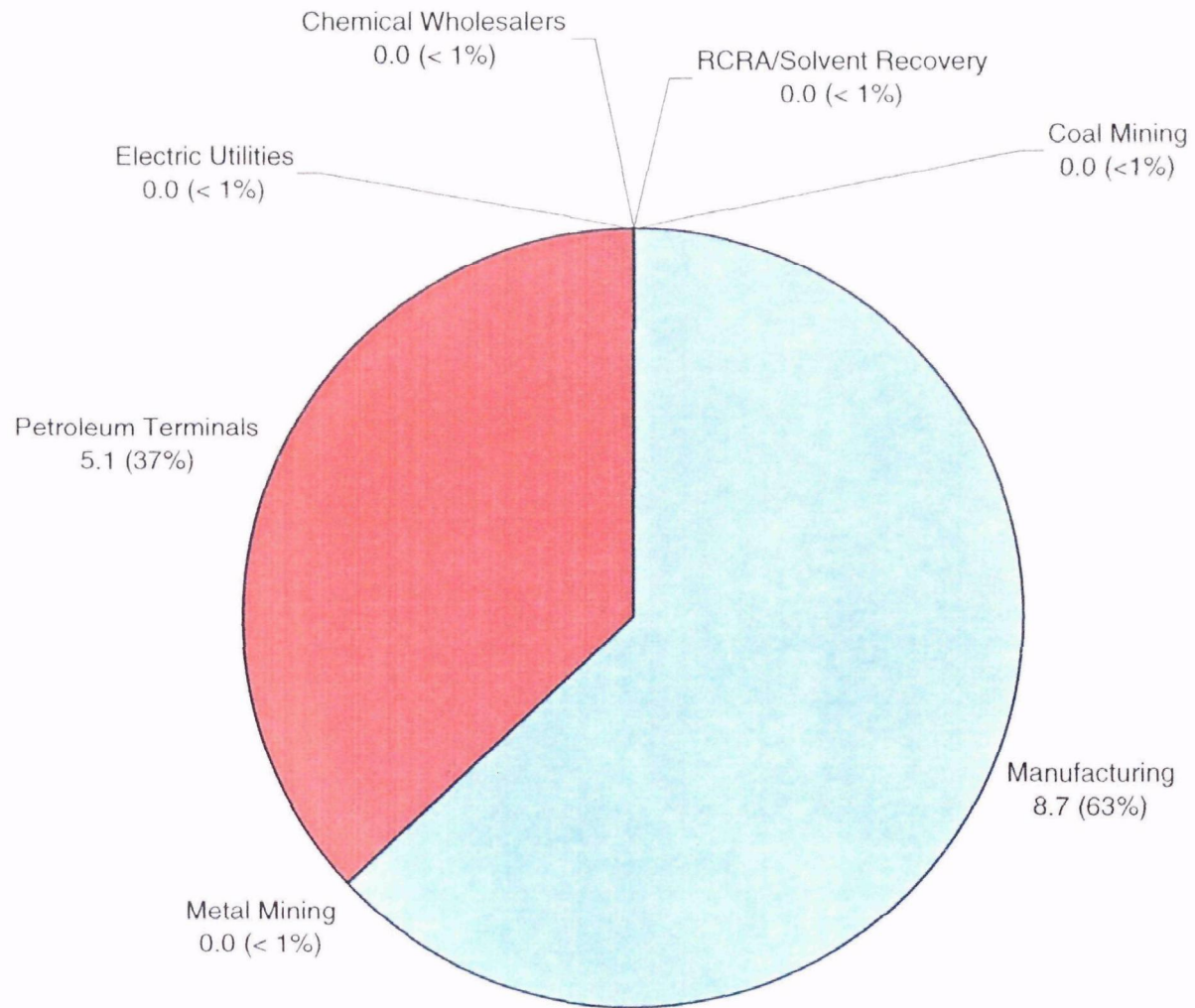
TRI Releases for Alaska, 1998



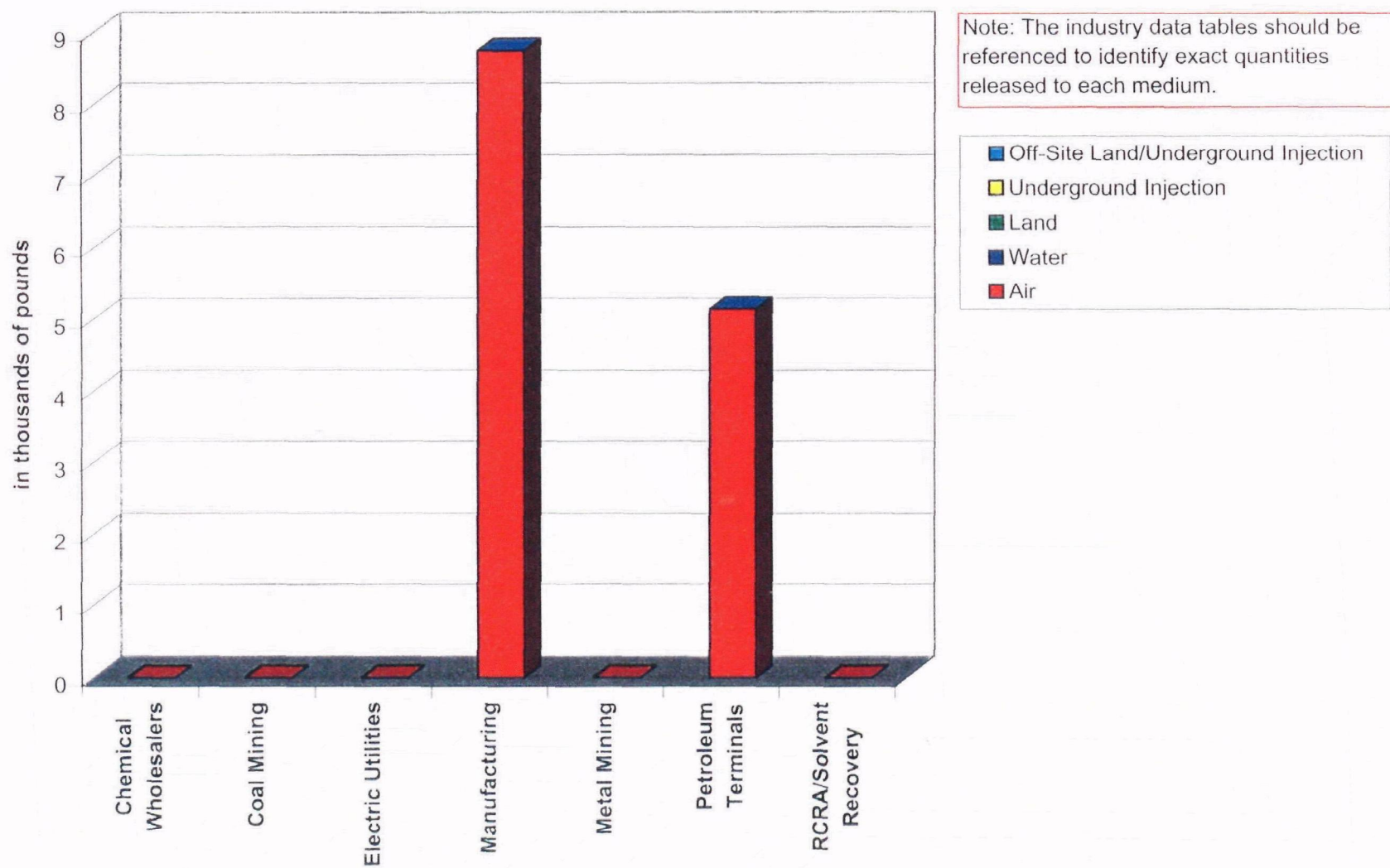
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

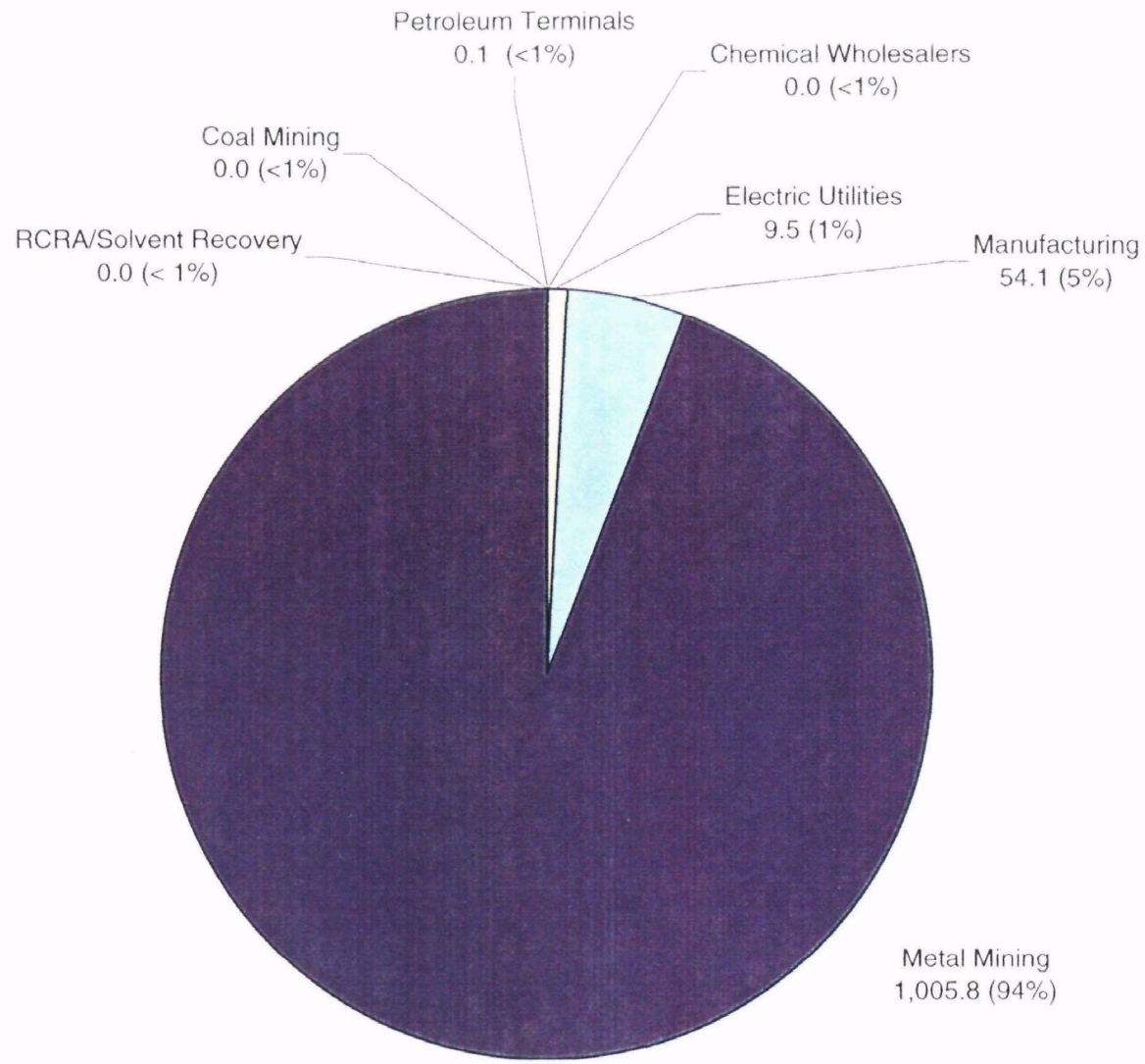
TRI Releases for American Samoa, 1998
(in thousands of pounds)



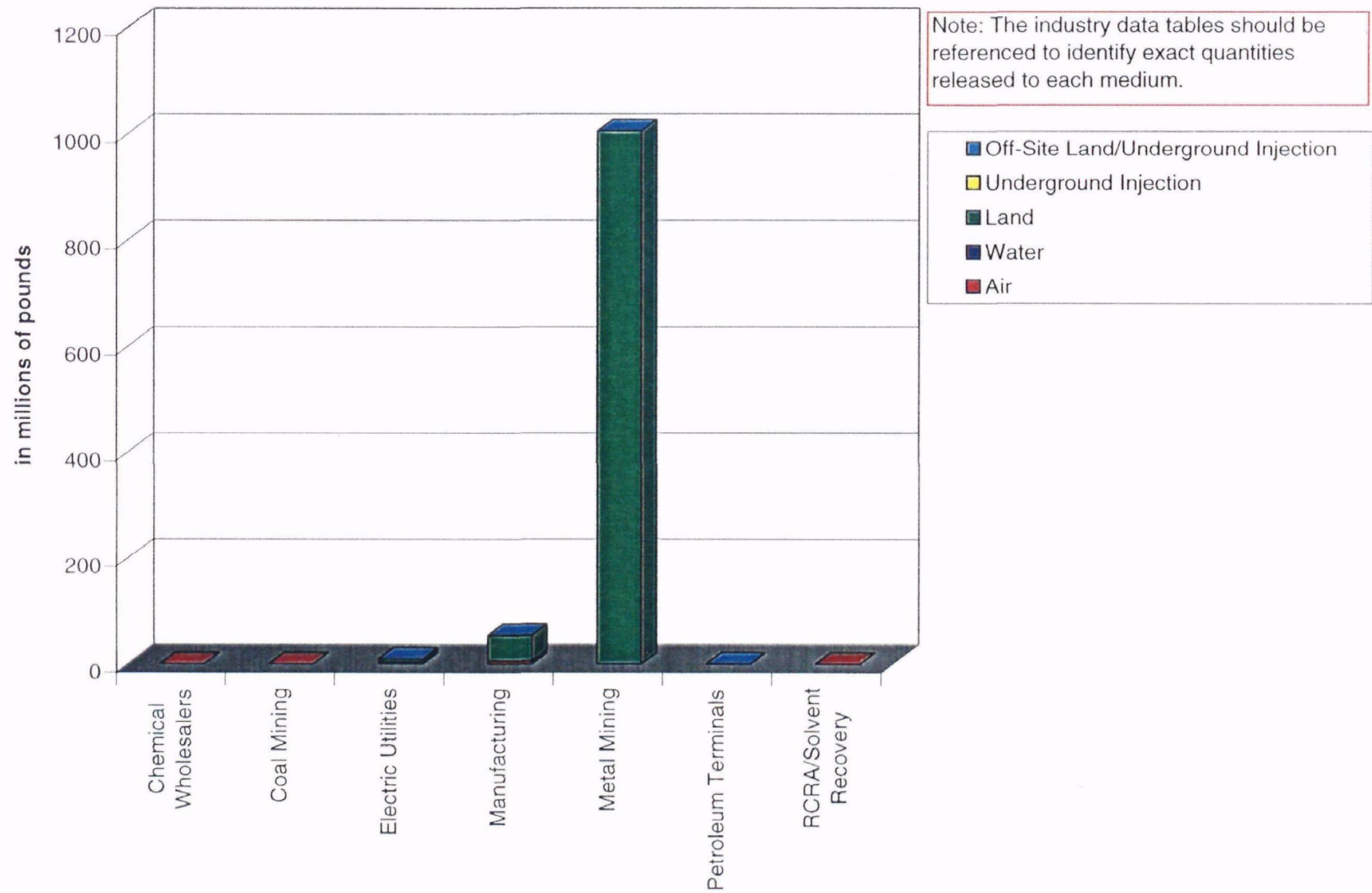
TRI Releases for American Samoa, 1998



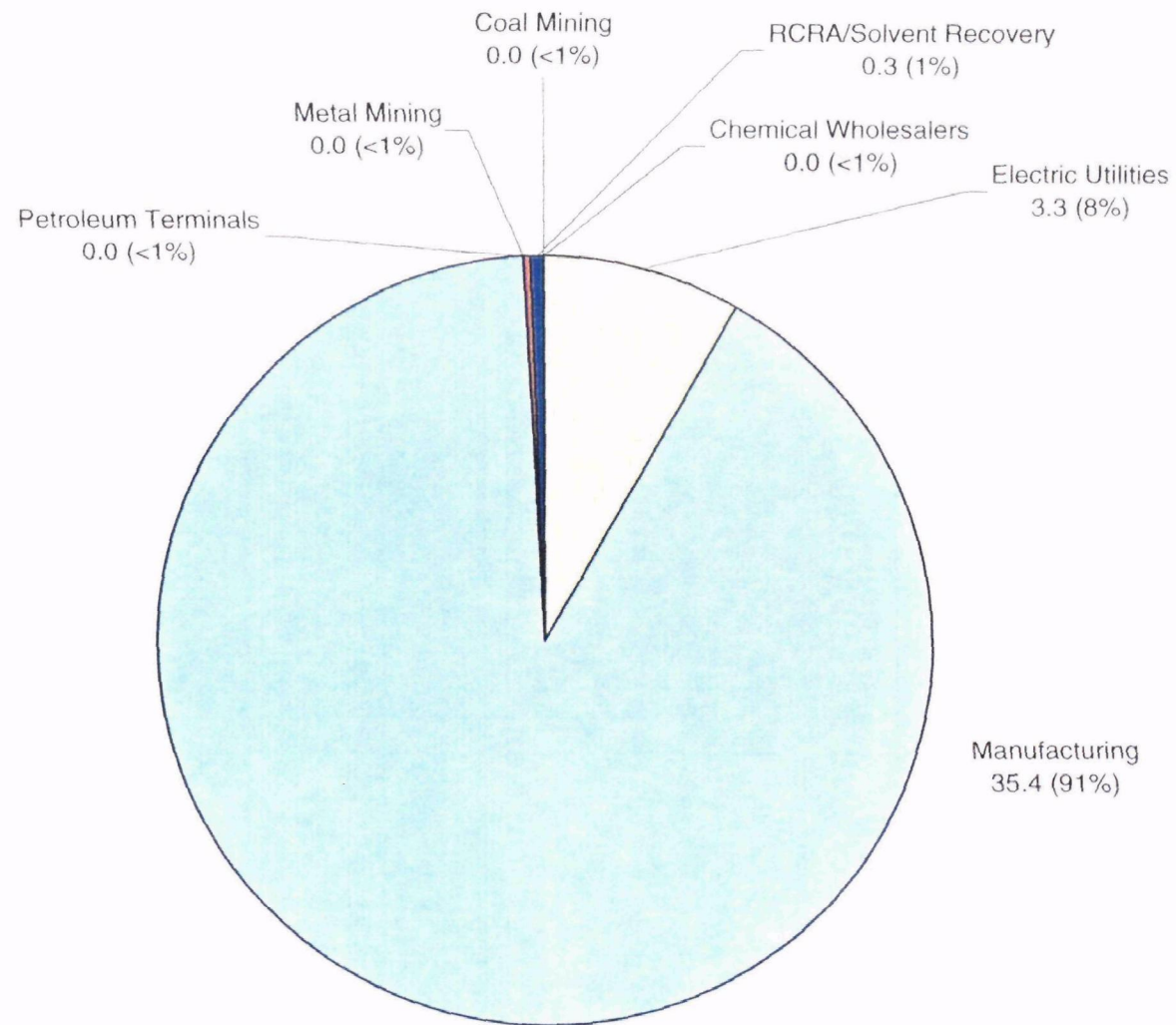
TRI Releases for Arizona, 1998
(in millions of pounds)



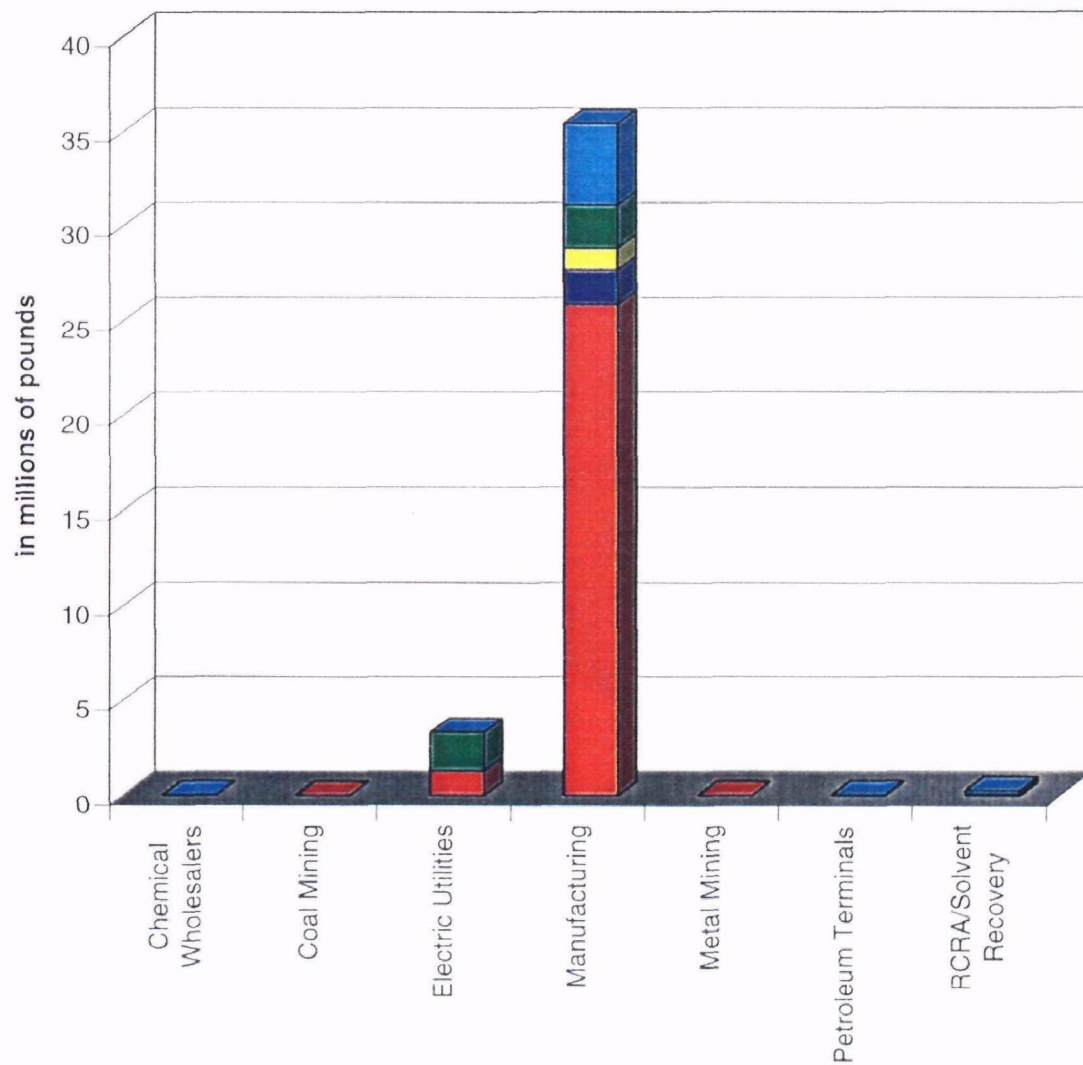
TRI Releases for Arizona, 1998



TRI Releases for Arkansas, 1998
(in millions of pounds)



TRI Releases for Arkansas, 1998

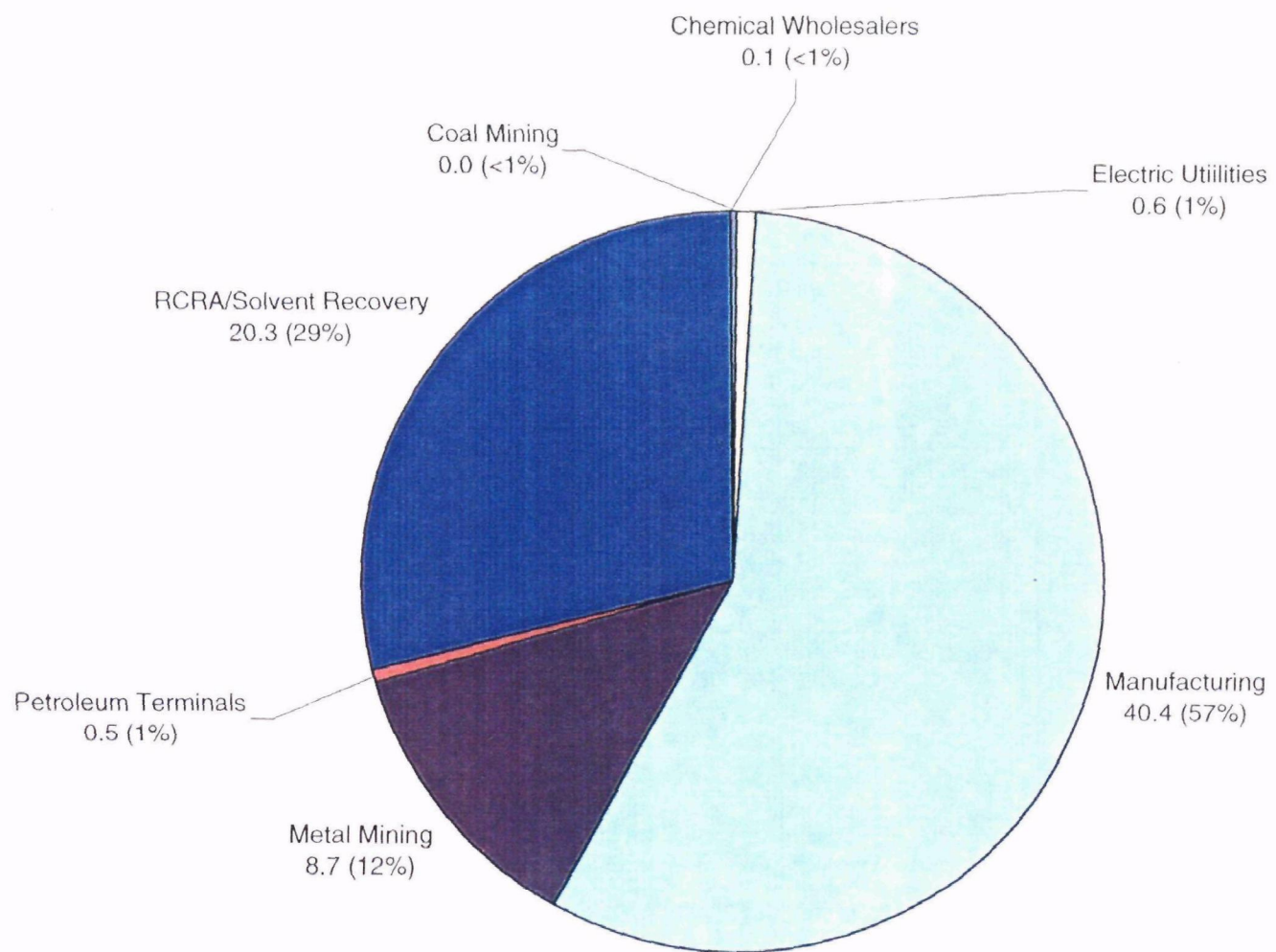


Note: The industry data tables should be referenced to identify exact quantities released to each medium.

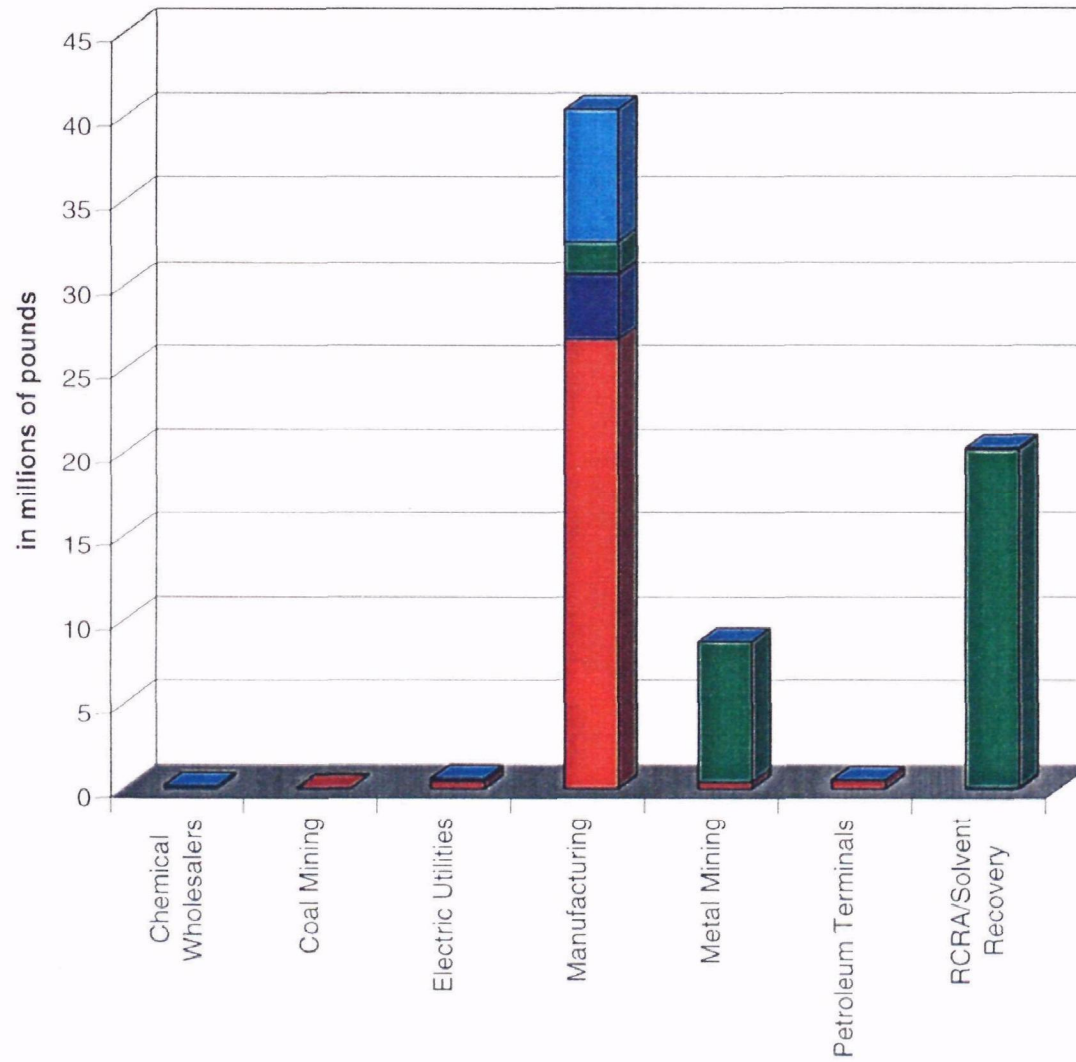
- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for California, 1998

(in millions of pounds)



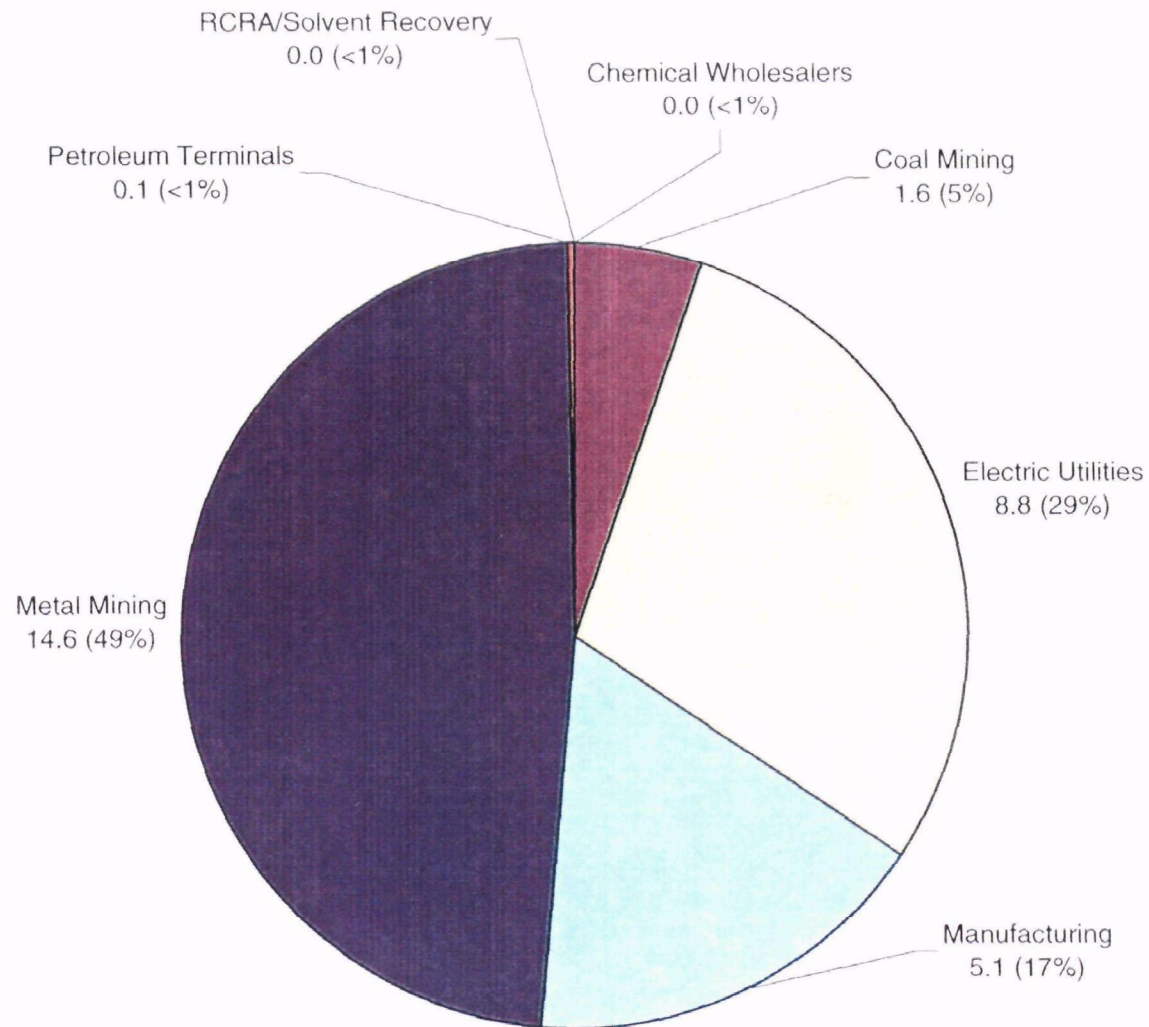
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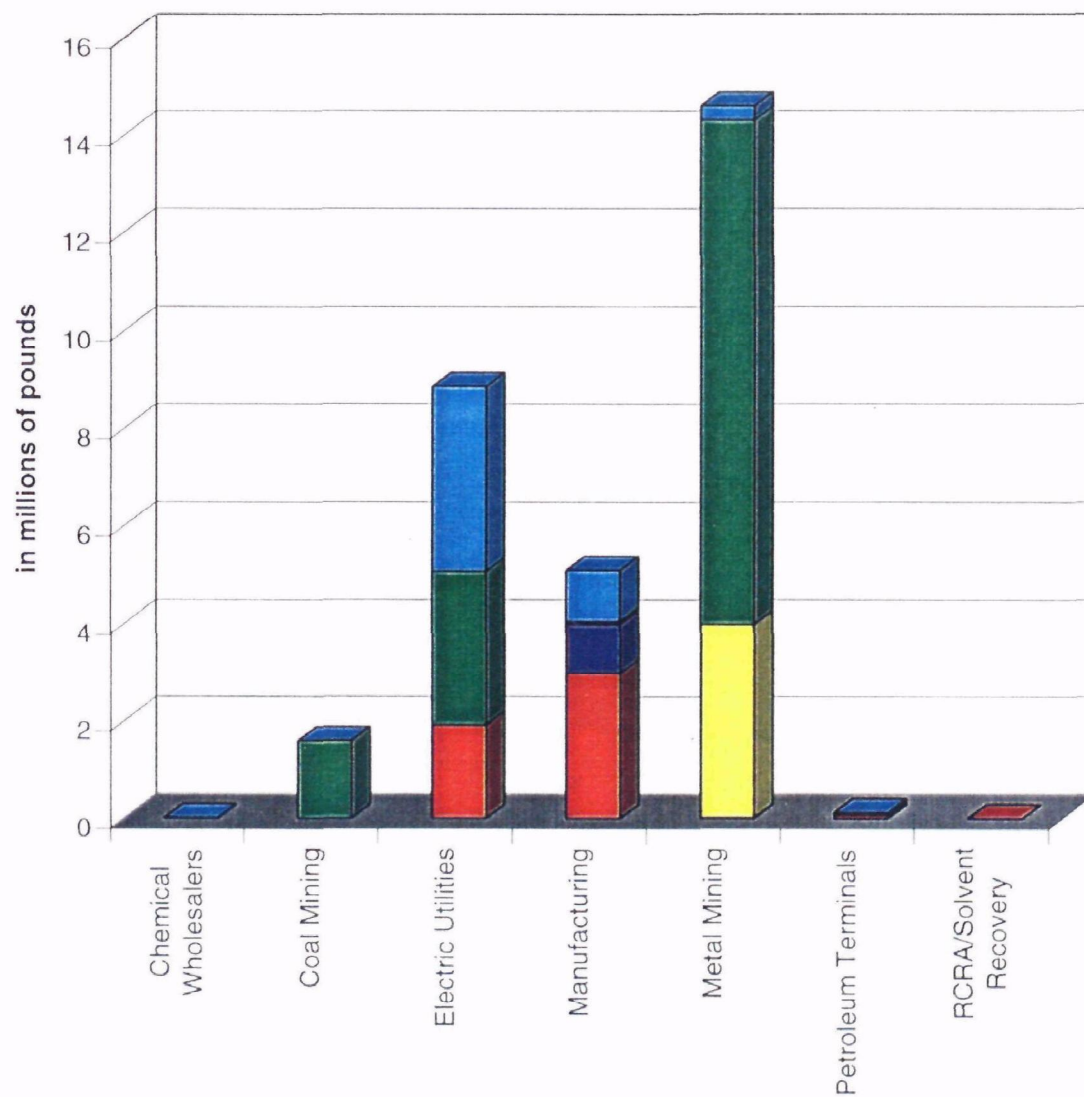
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Colorado, 1998
(in millions of pounds)



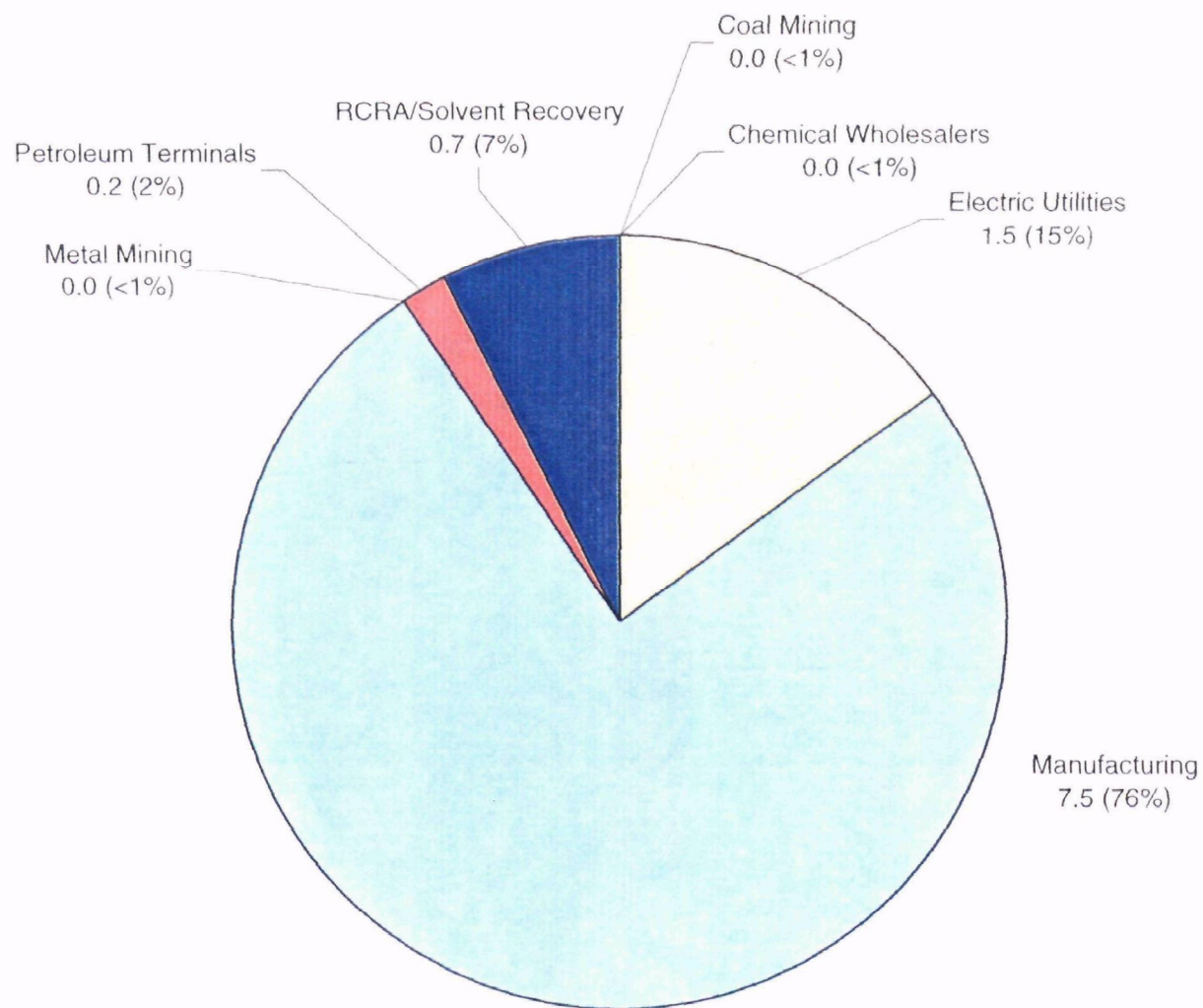
TRI Releases for Colorado, 1998



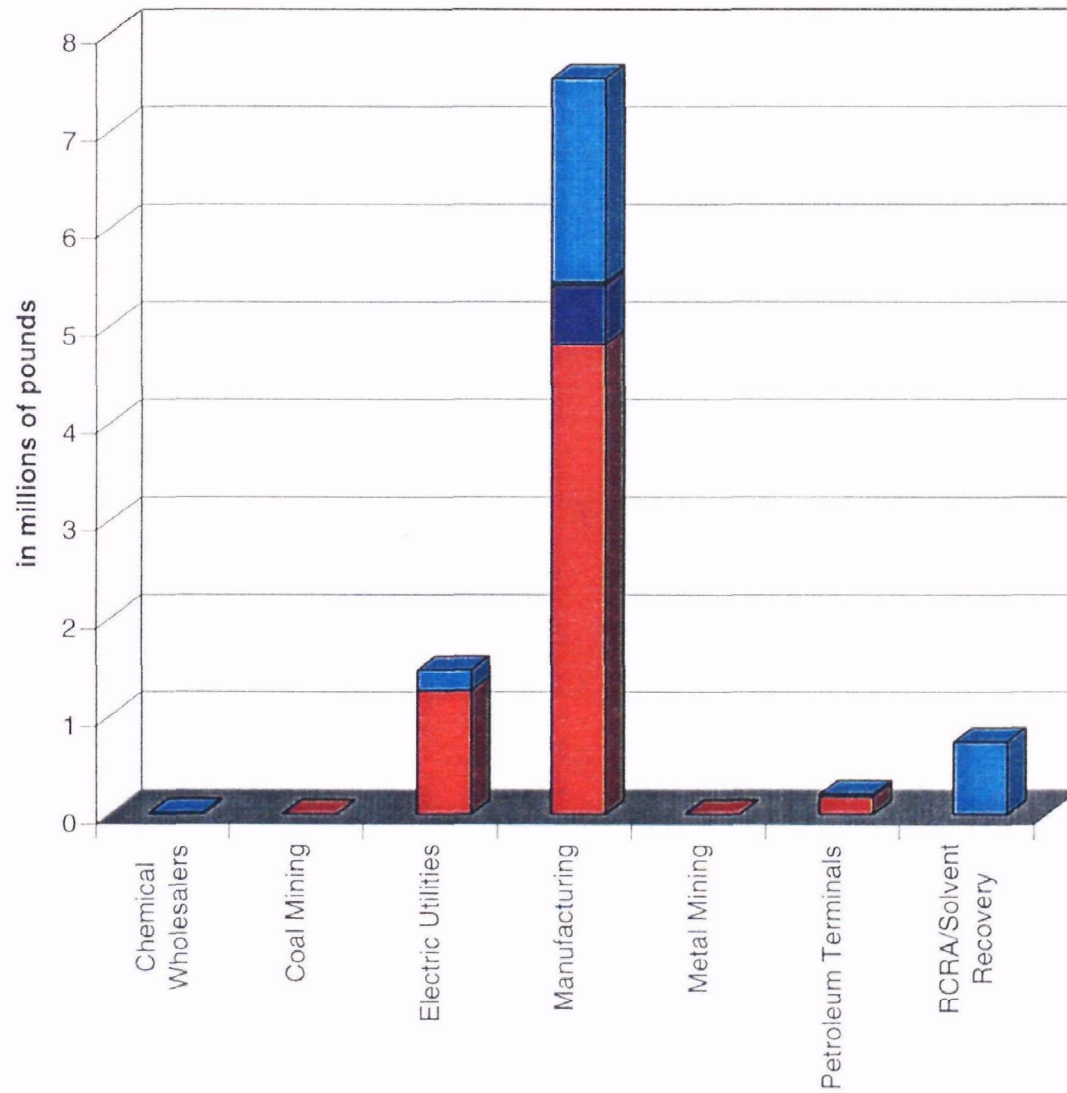
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Connecticut, 1998
(in millions of pounds)



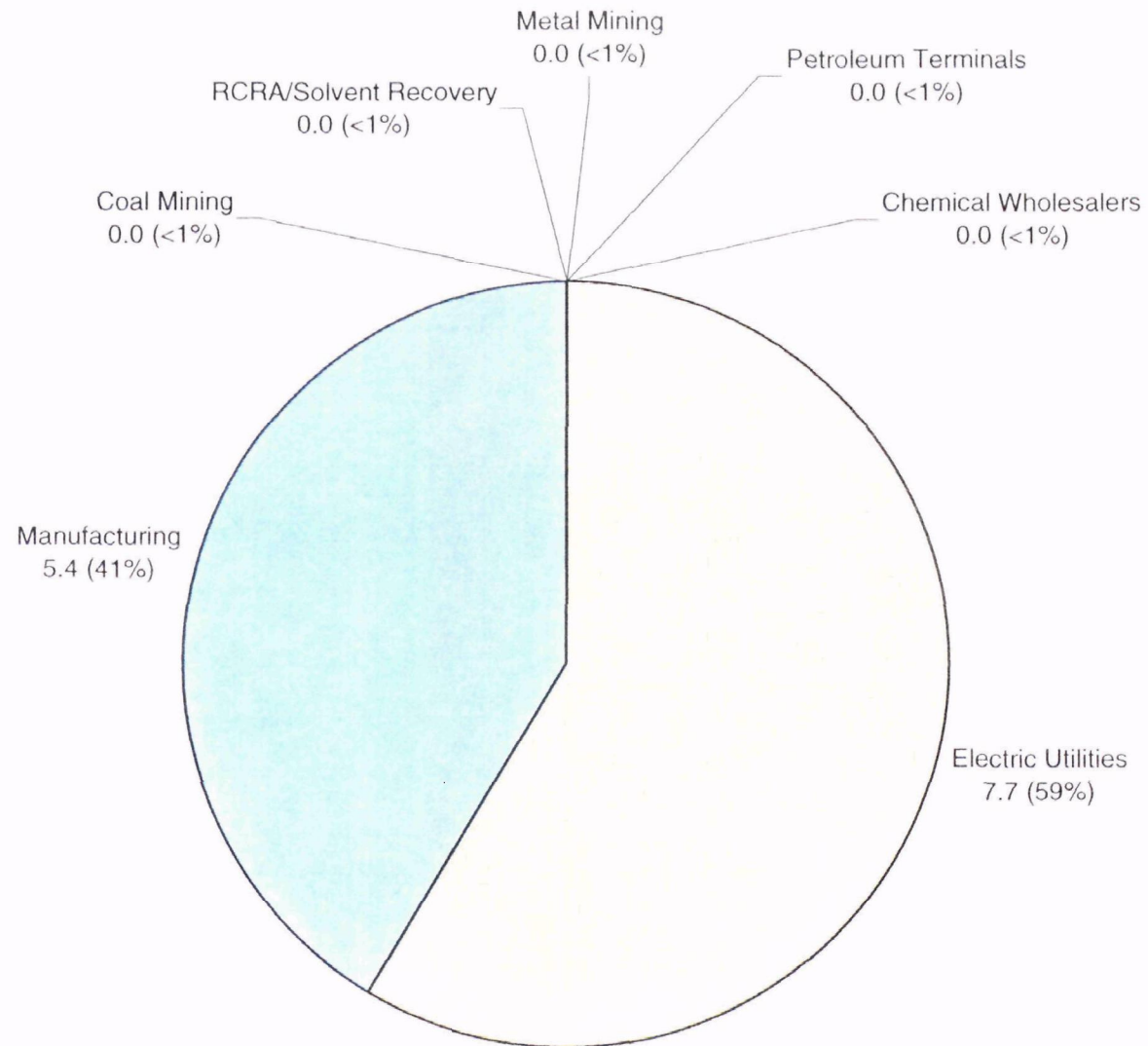
TRI Releases for Connecticut



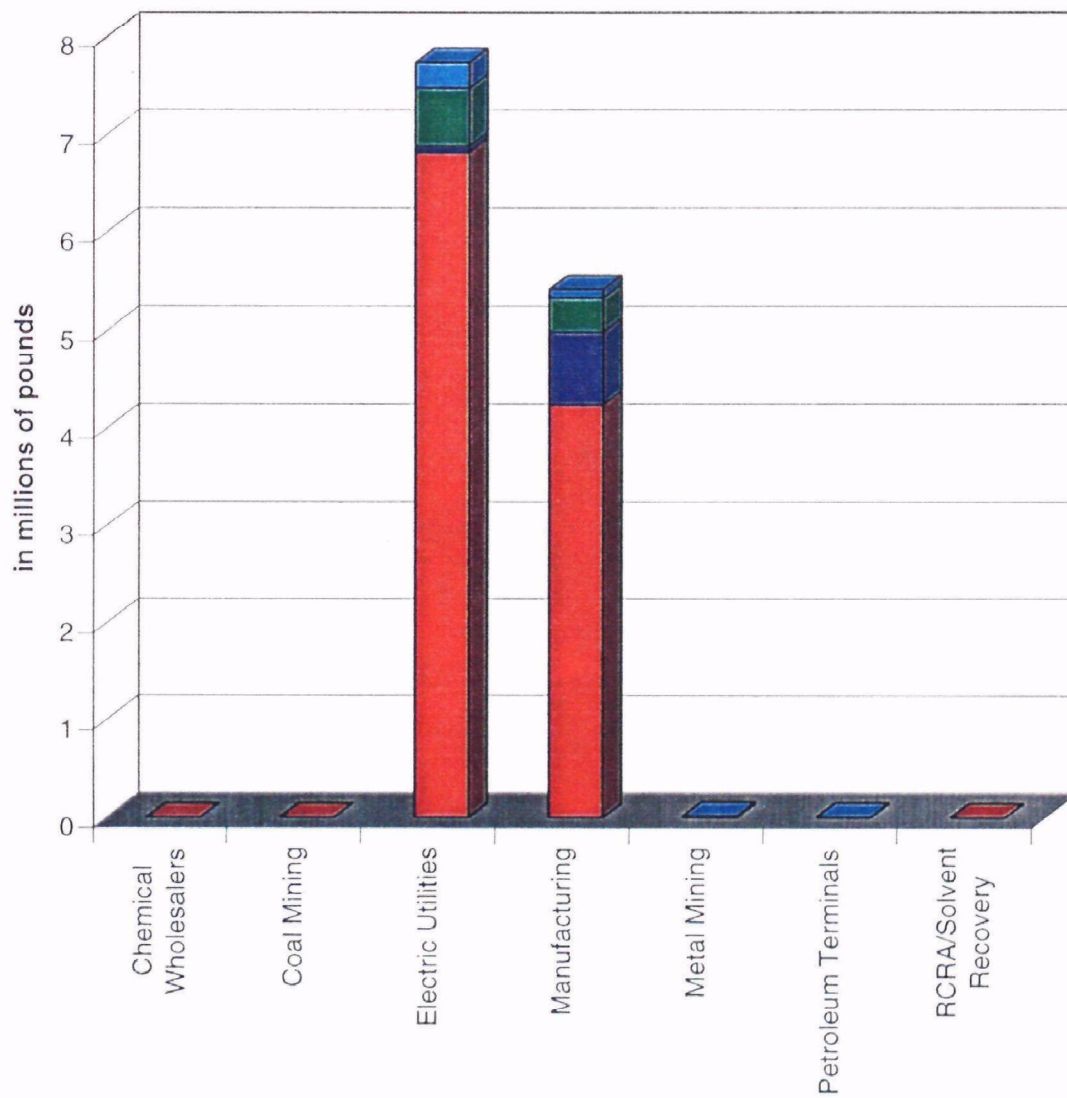
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Delaware, 1998
(in millions of pounds)



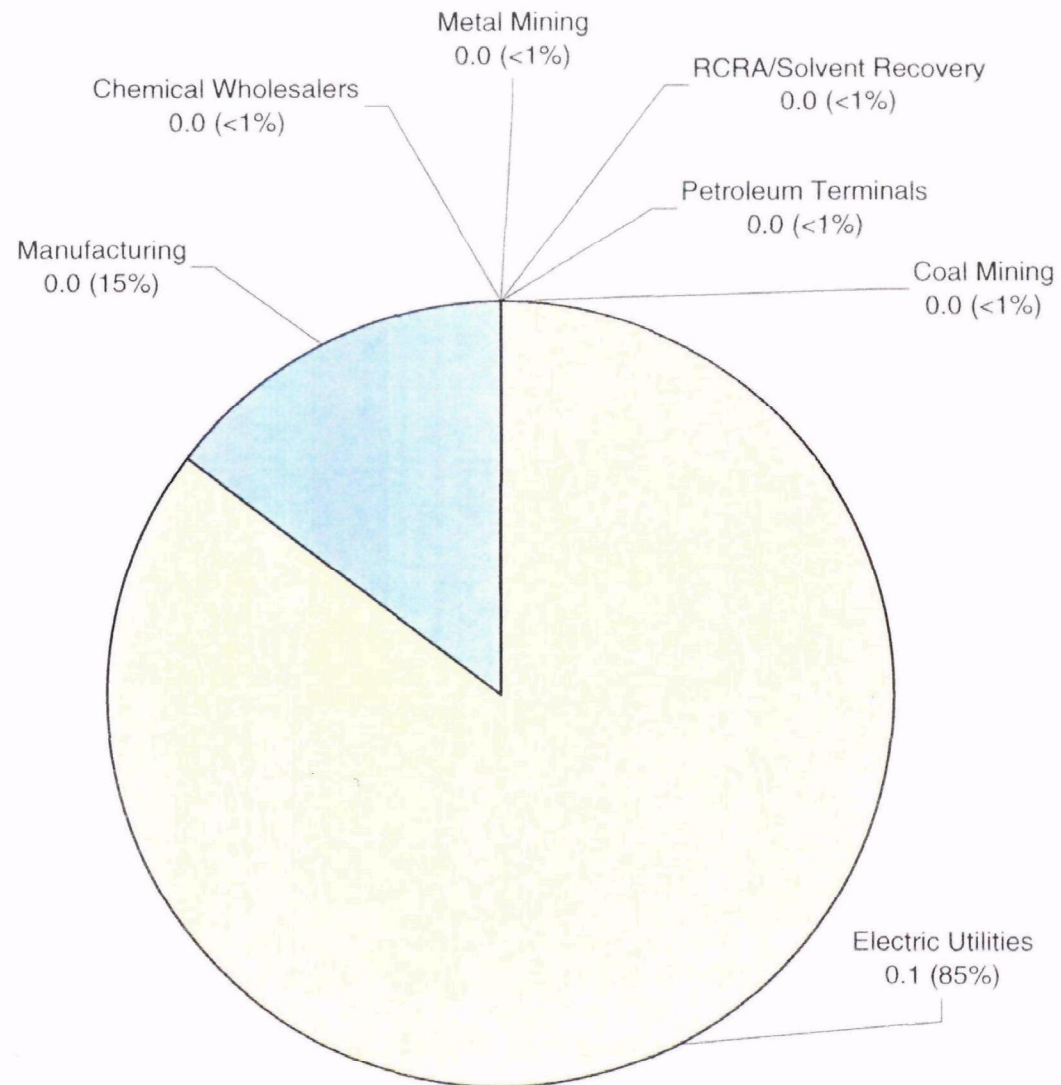
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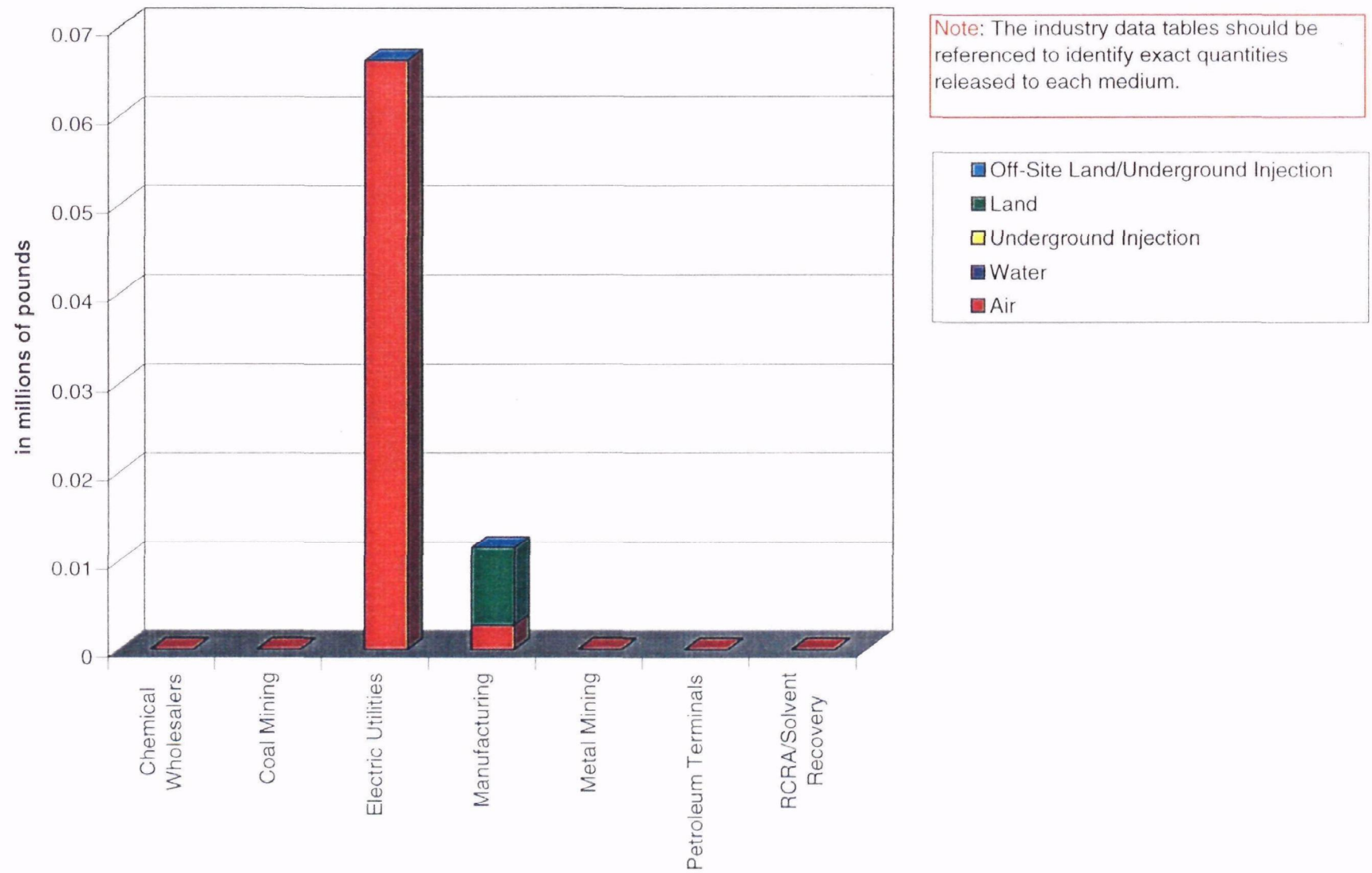
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- Air

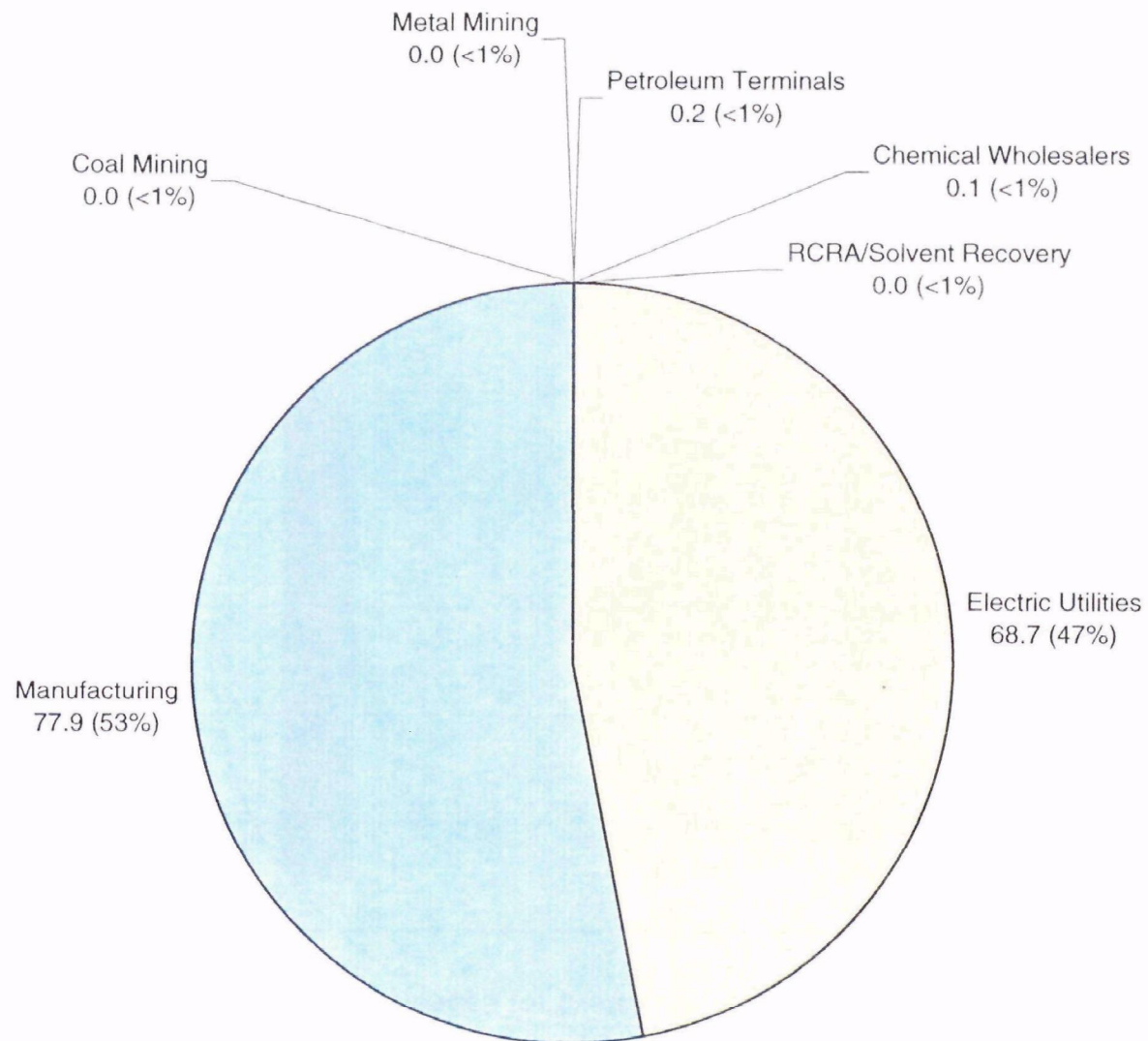
TRI Releases for District of Columbia, 1998
(in millions of pounds)



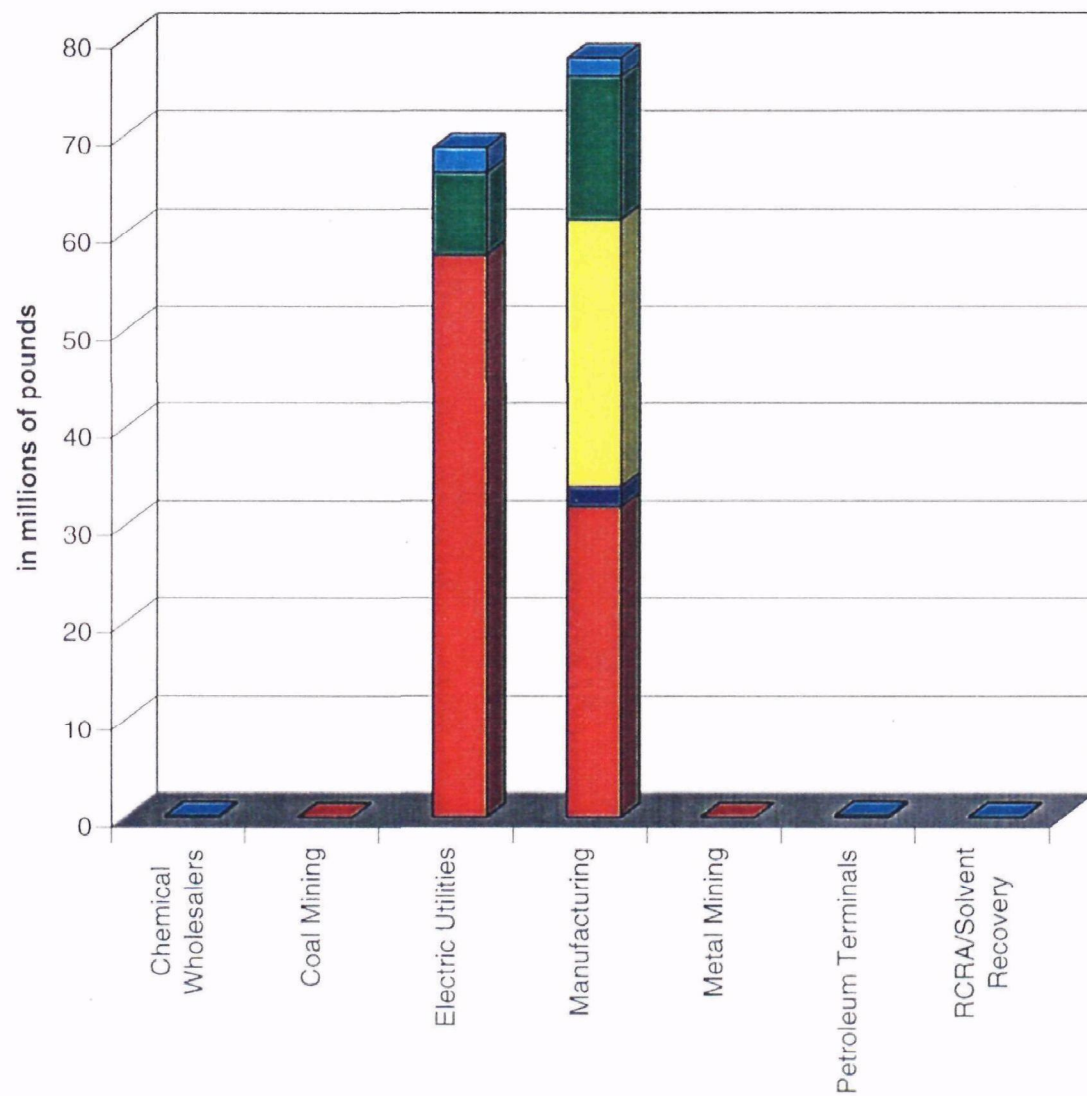
TRI Releases for District of Columbia, 1998



TRI Releases for Florida, 1998
(in millions of pounds)



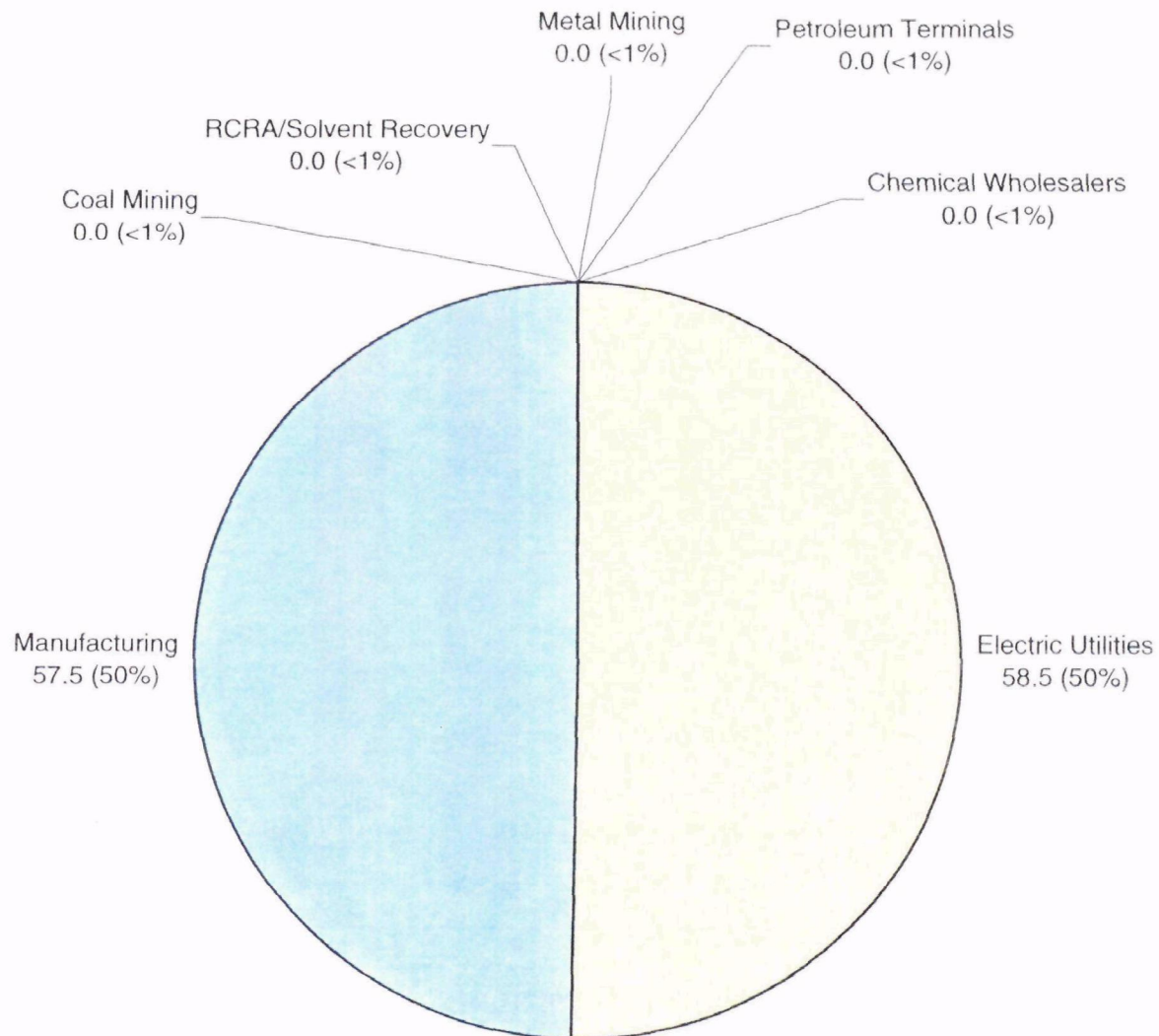
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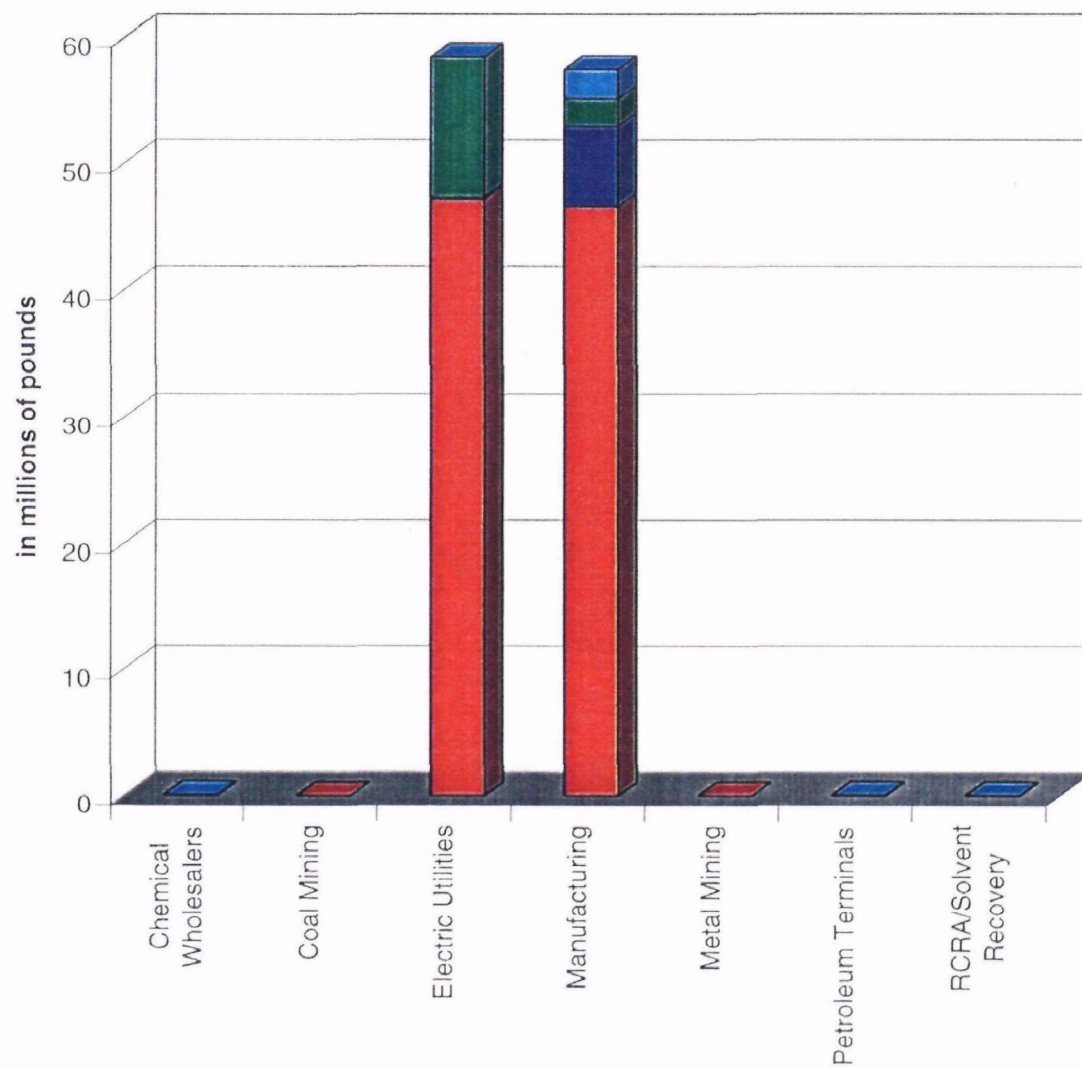
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Georgia, 1998
(in millions of pounds)



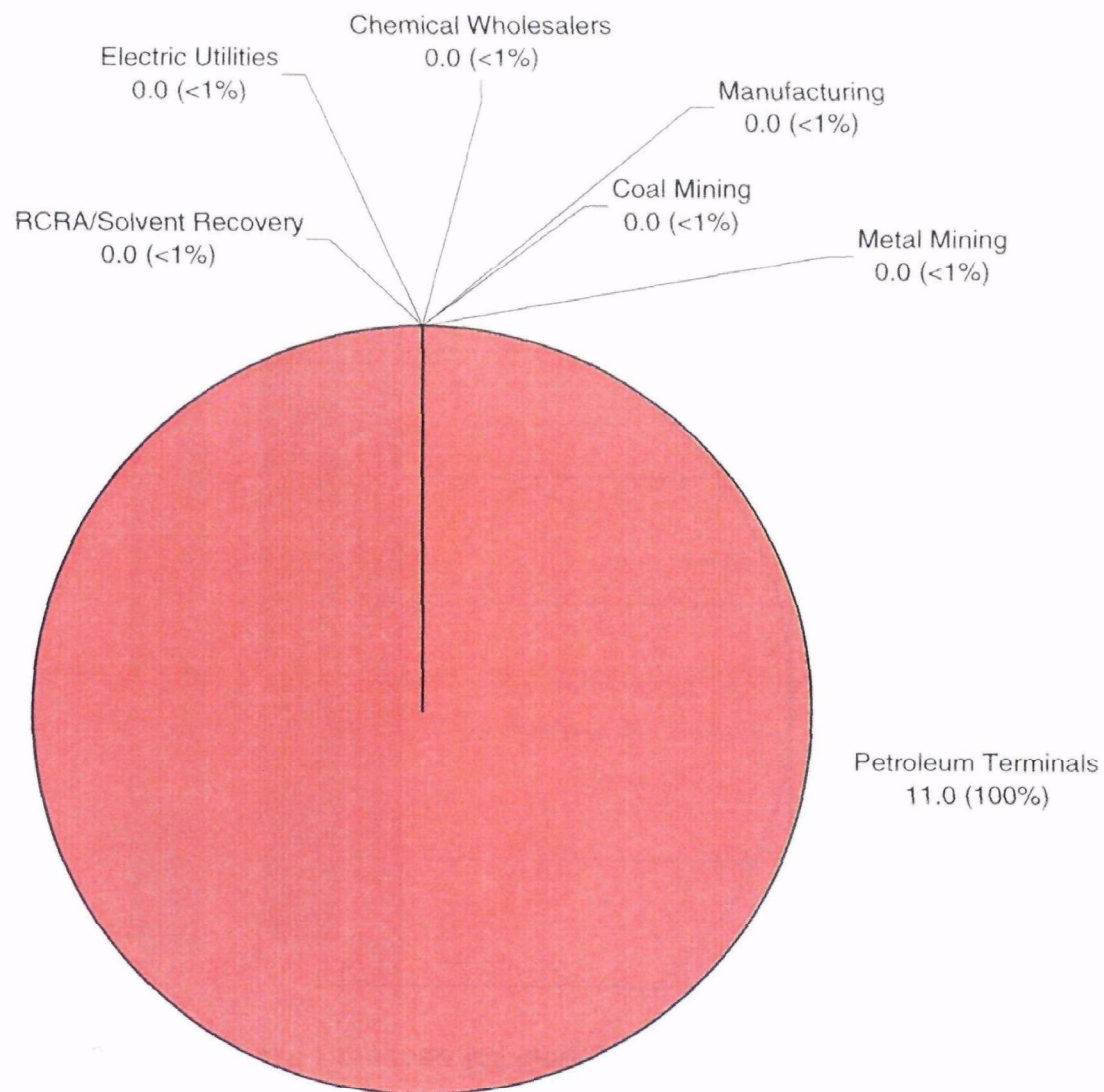
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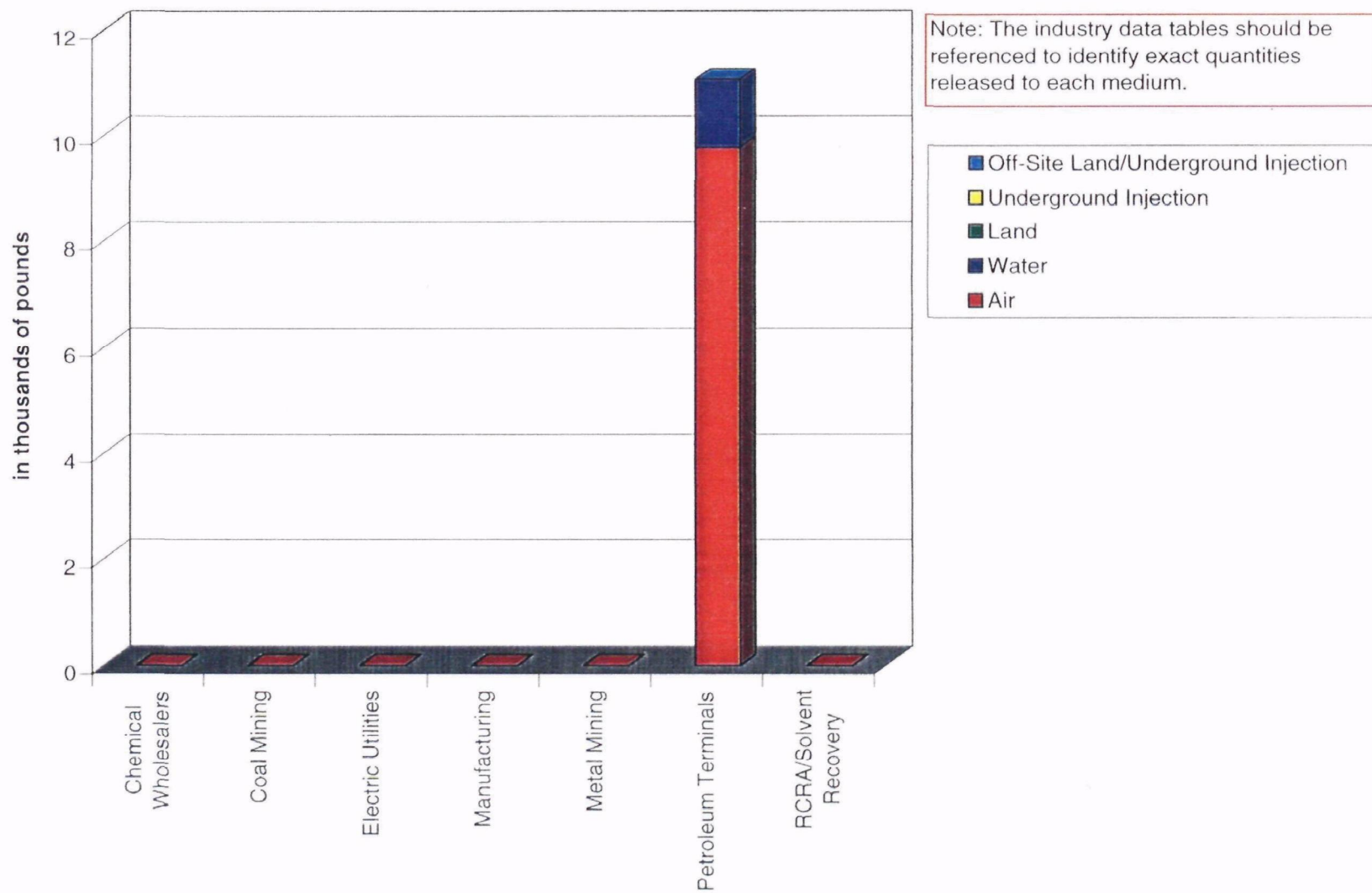
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- Air

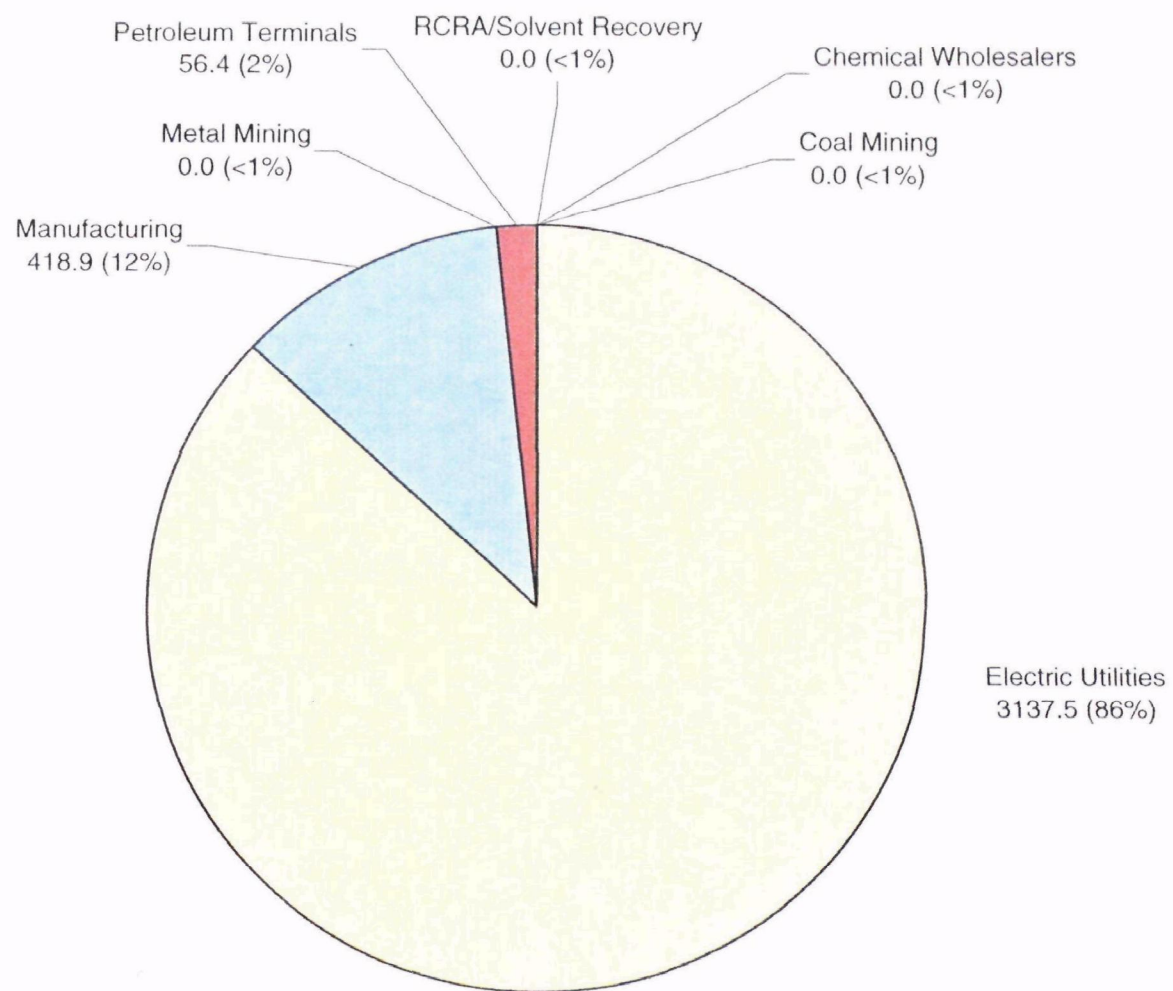
TRI Releases for Guam, 1998
(in thousands of pounds)



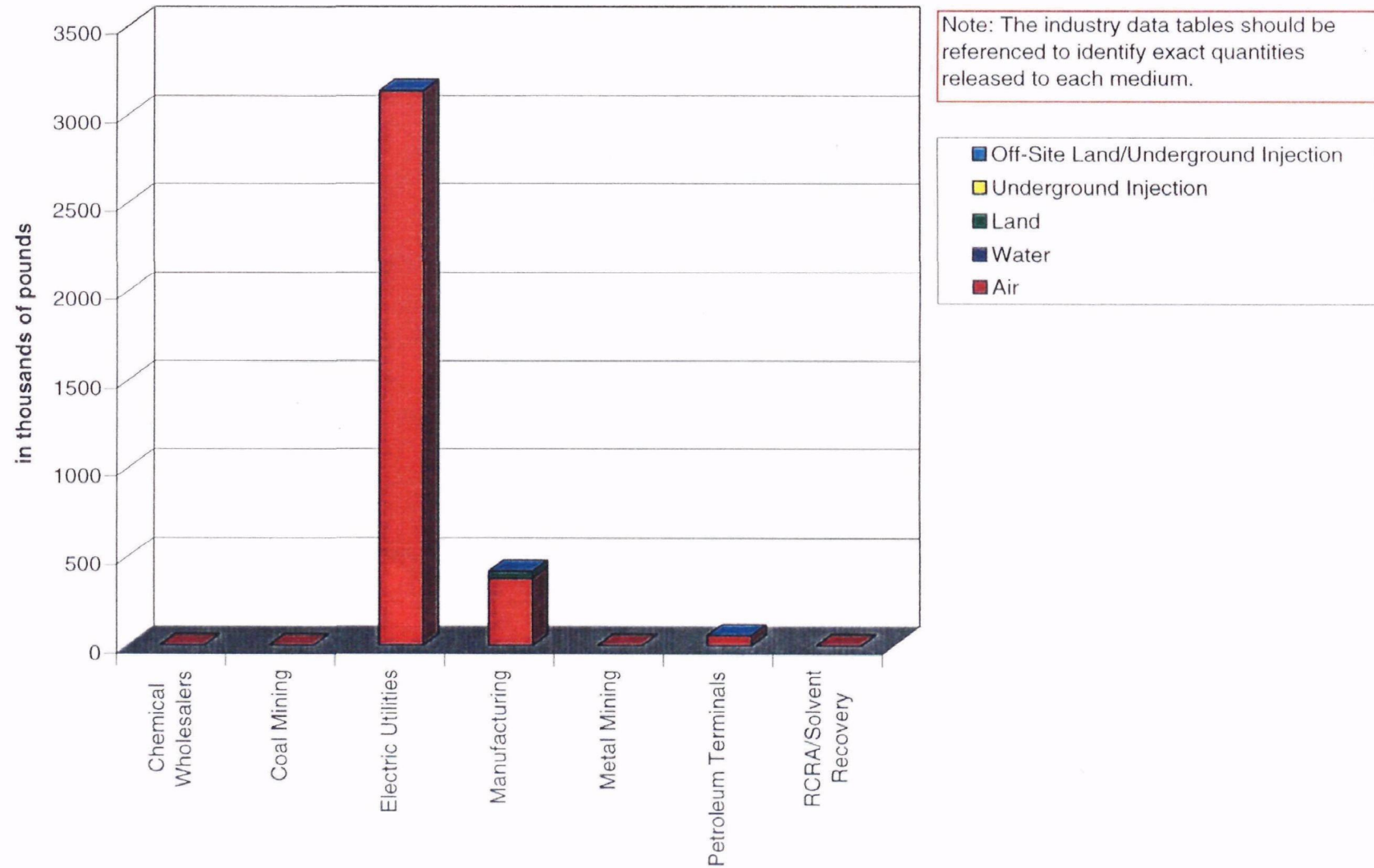
TRI Releases for Guam, 1998



TRI Releases for Hawaii, 1998
(in thousands of pounds)

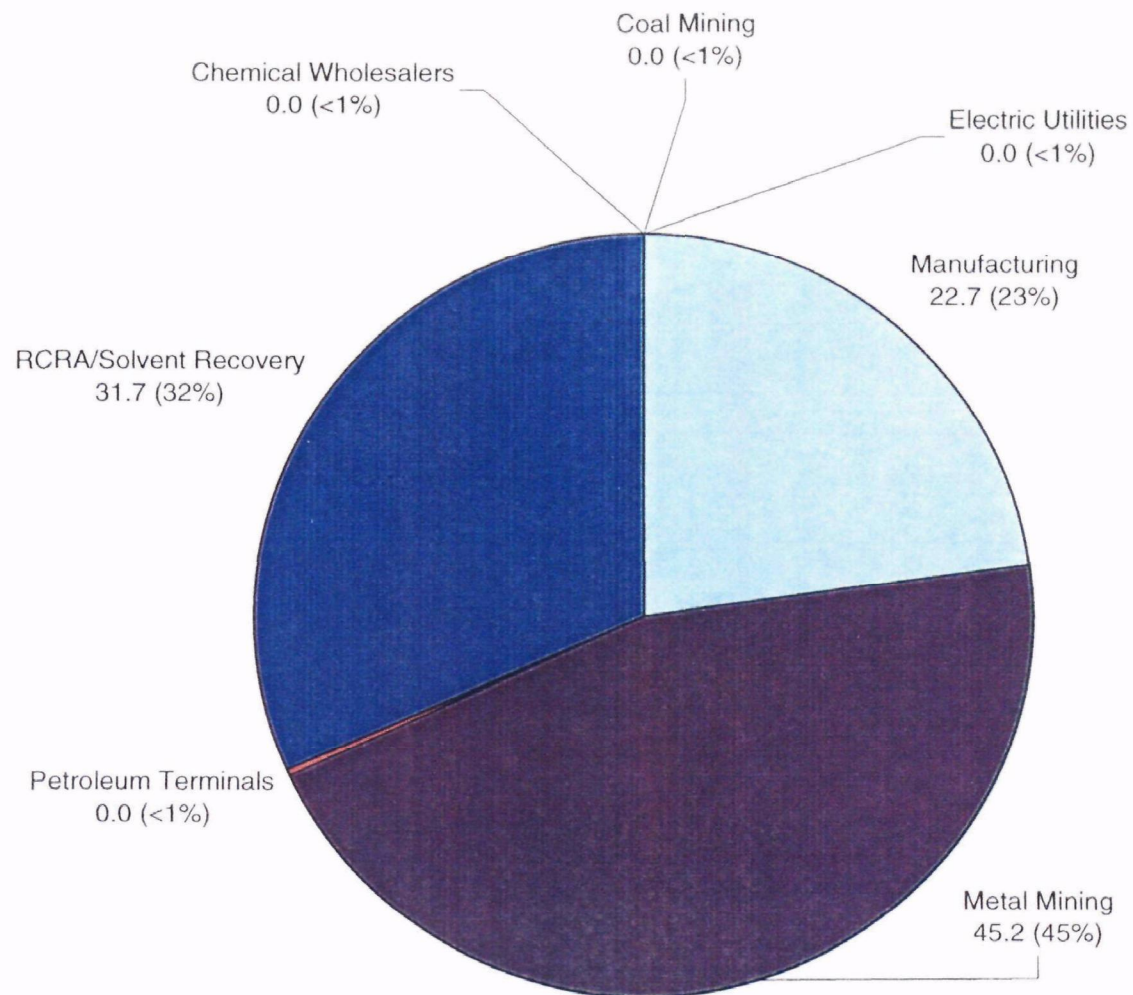


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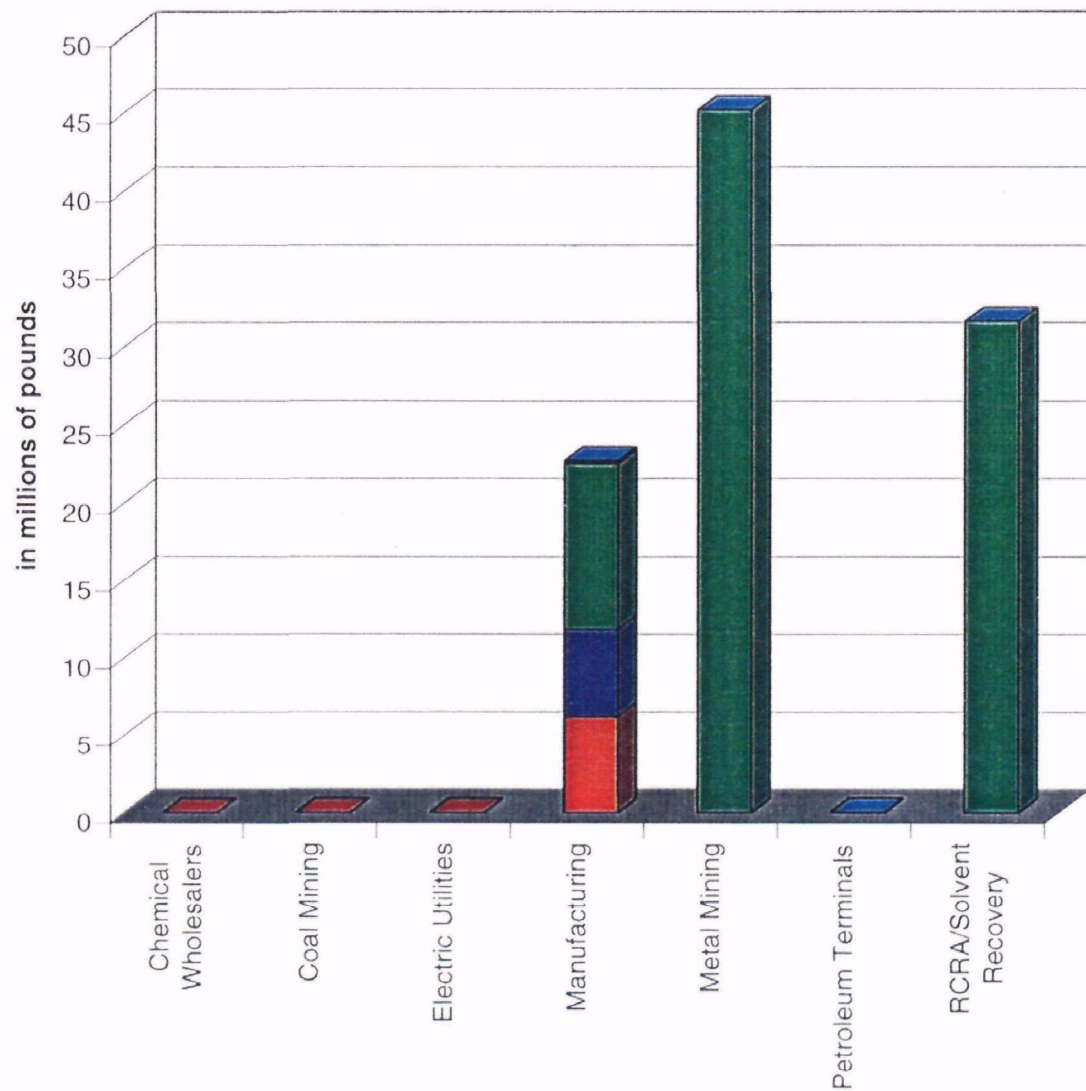


TRI Releases for Idaho, 1998

(in millions of pounds)



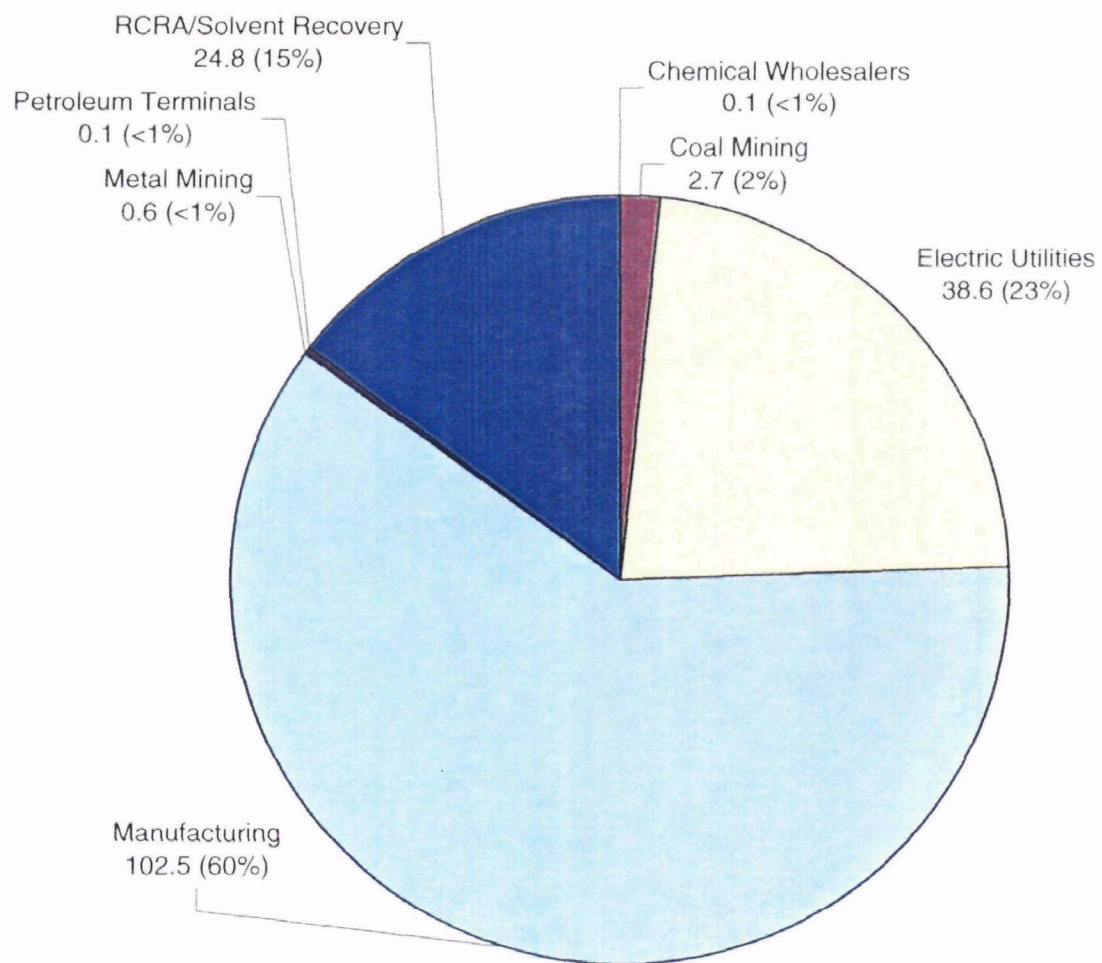
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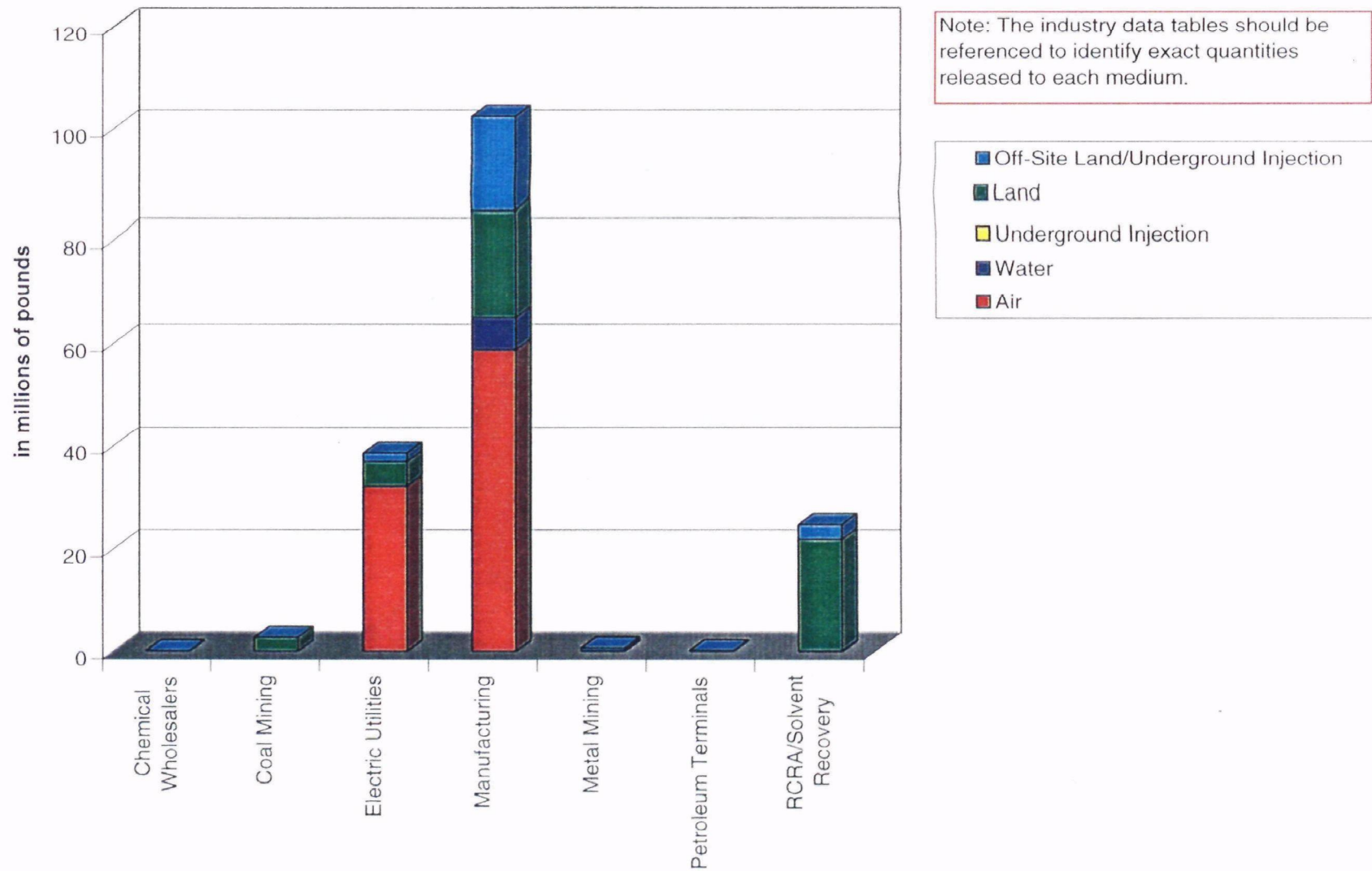
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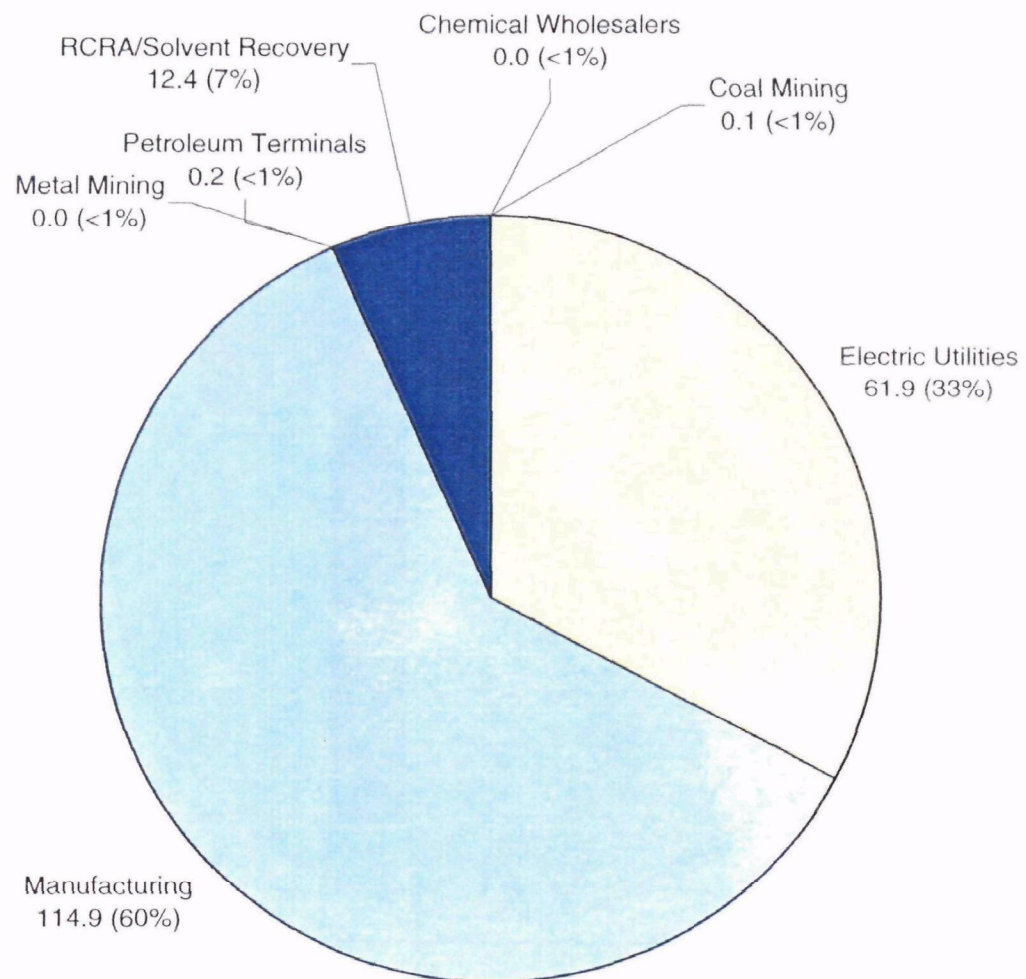
TRI Releases for Illinois, 1998
(in millions of pounds)



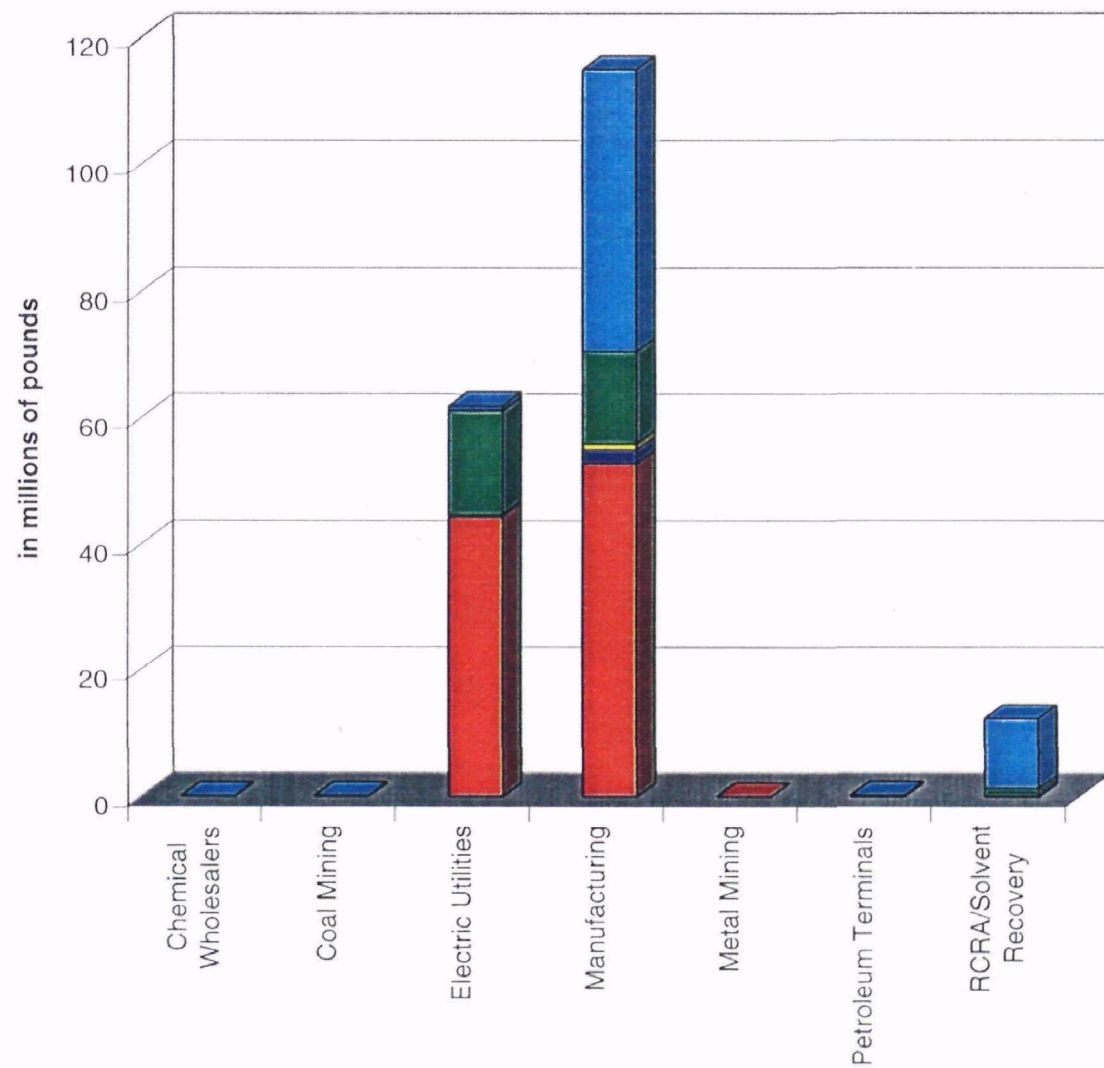
TRI Releases for Illinois, 1998



TRI Releases for Indiana, 1998
(in millions of pounds)



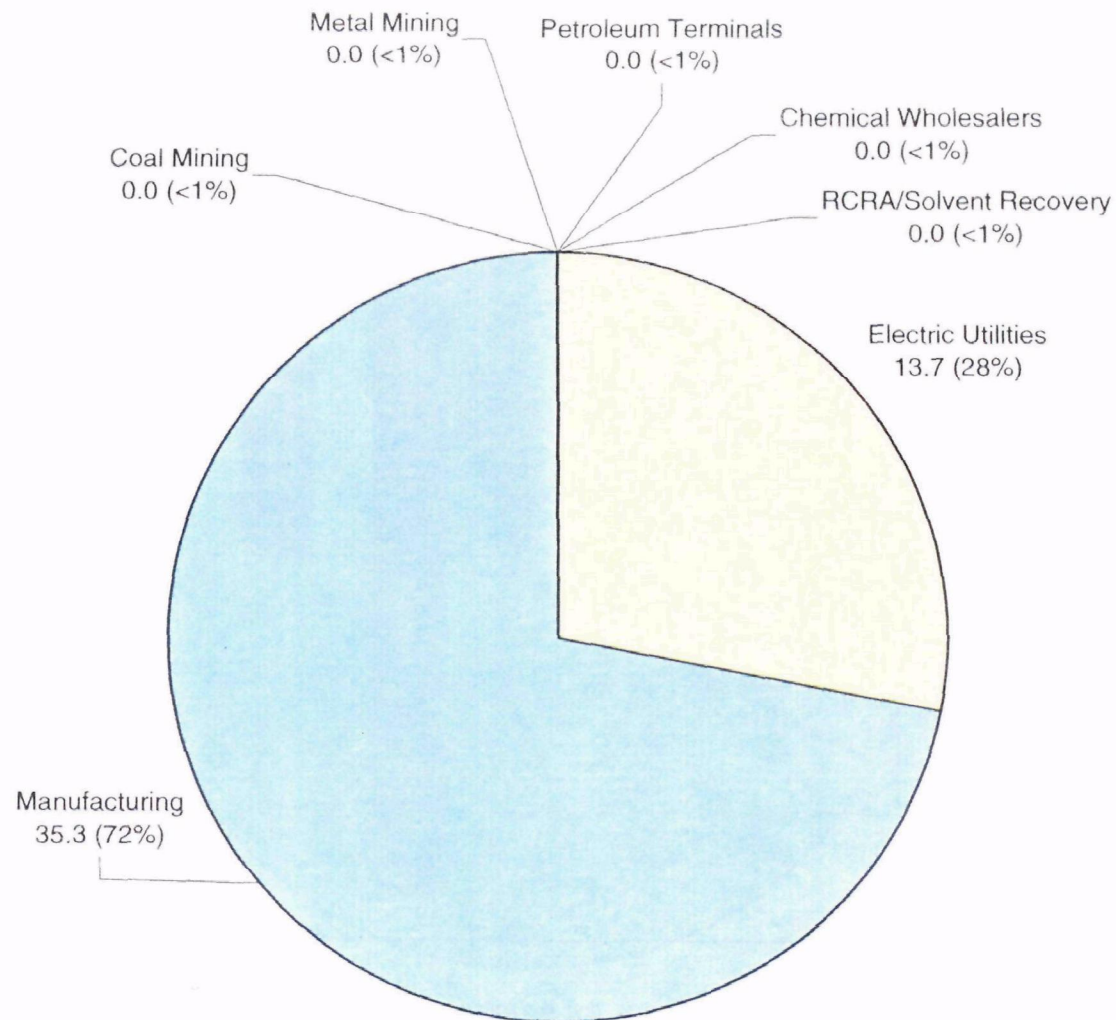
TRI Releases for Indiana, 1998



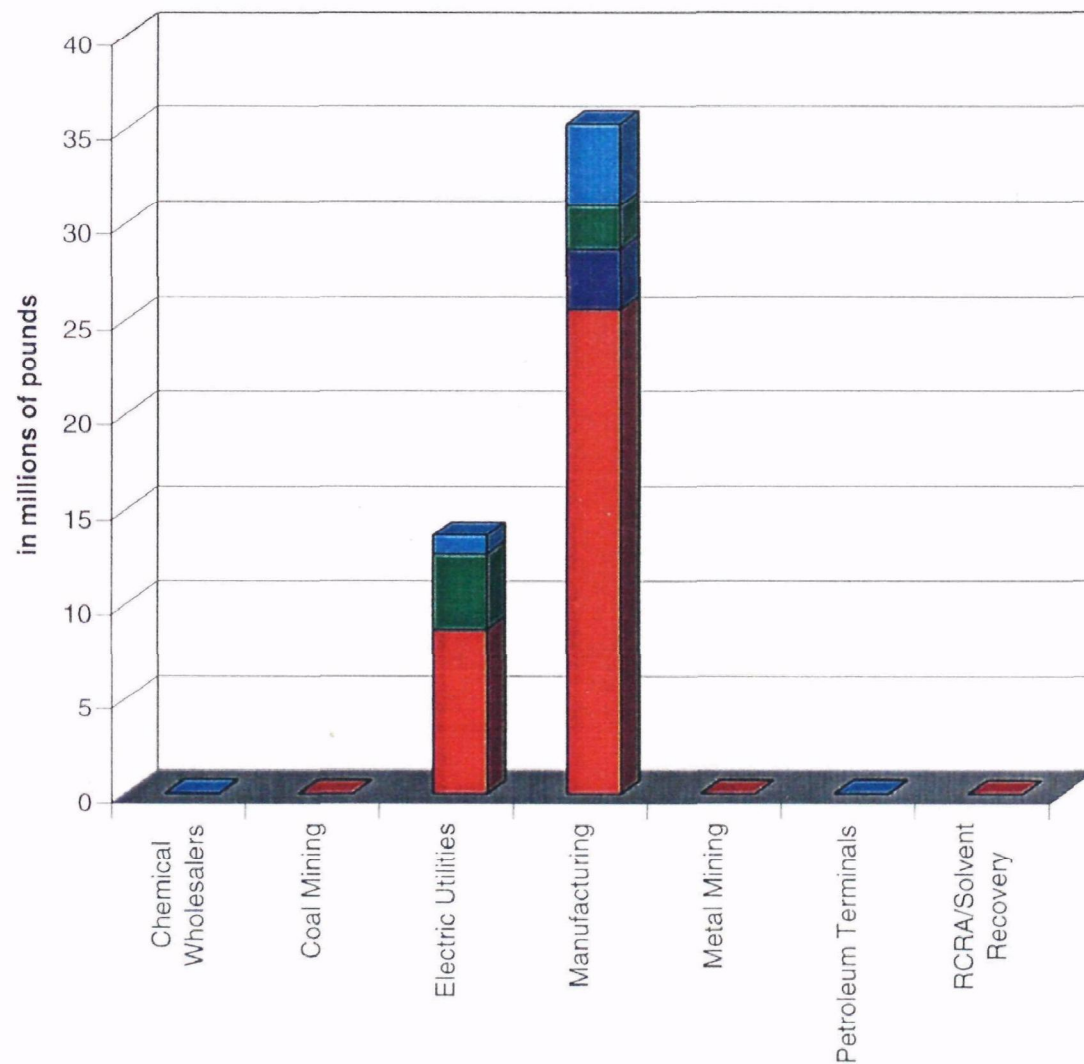
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
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TRI Releases for Iowa, 1998
(in millions of pounds)



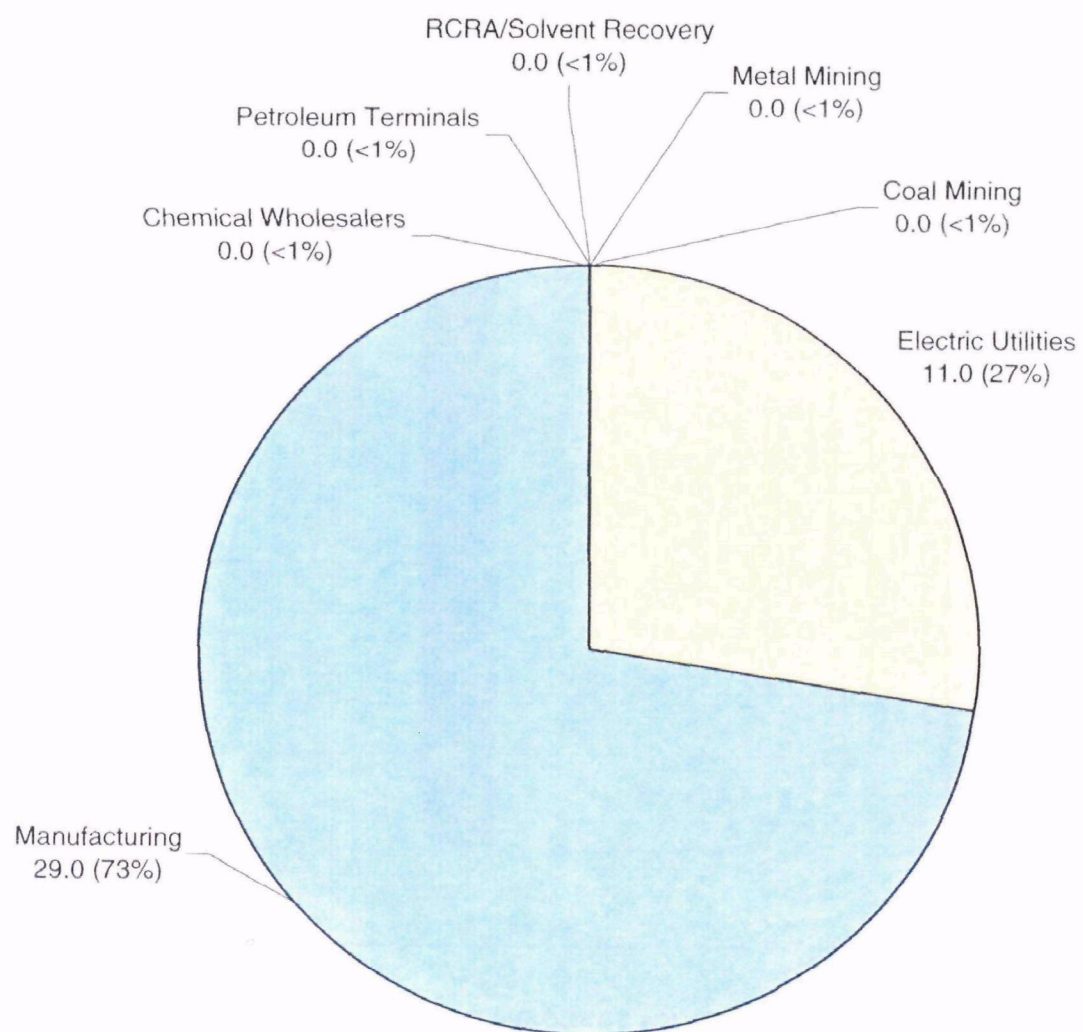
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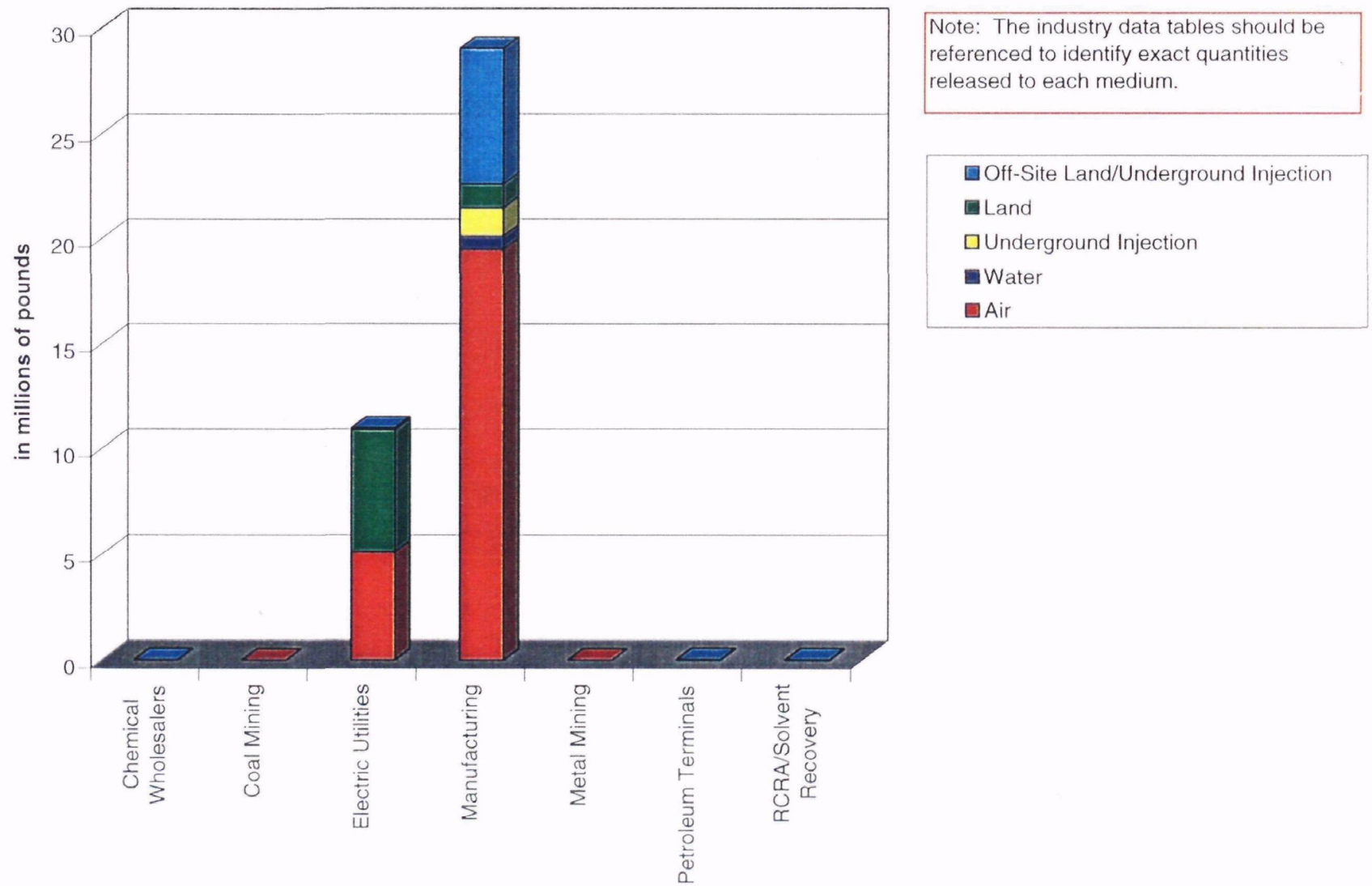
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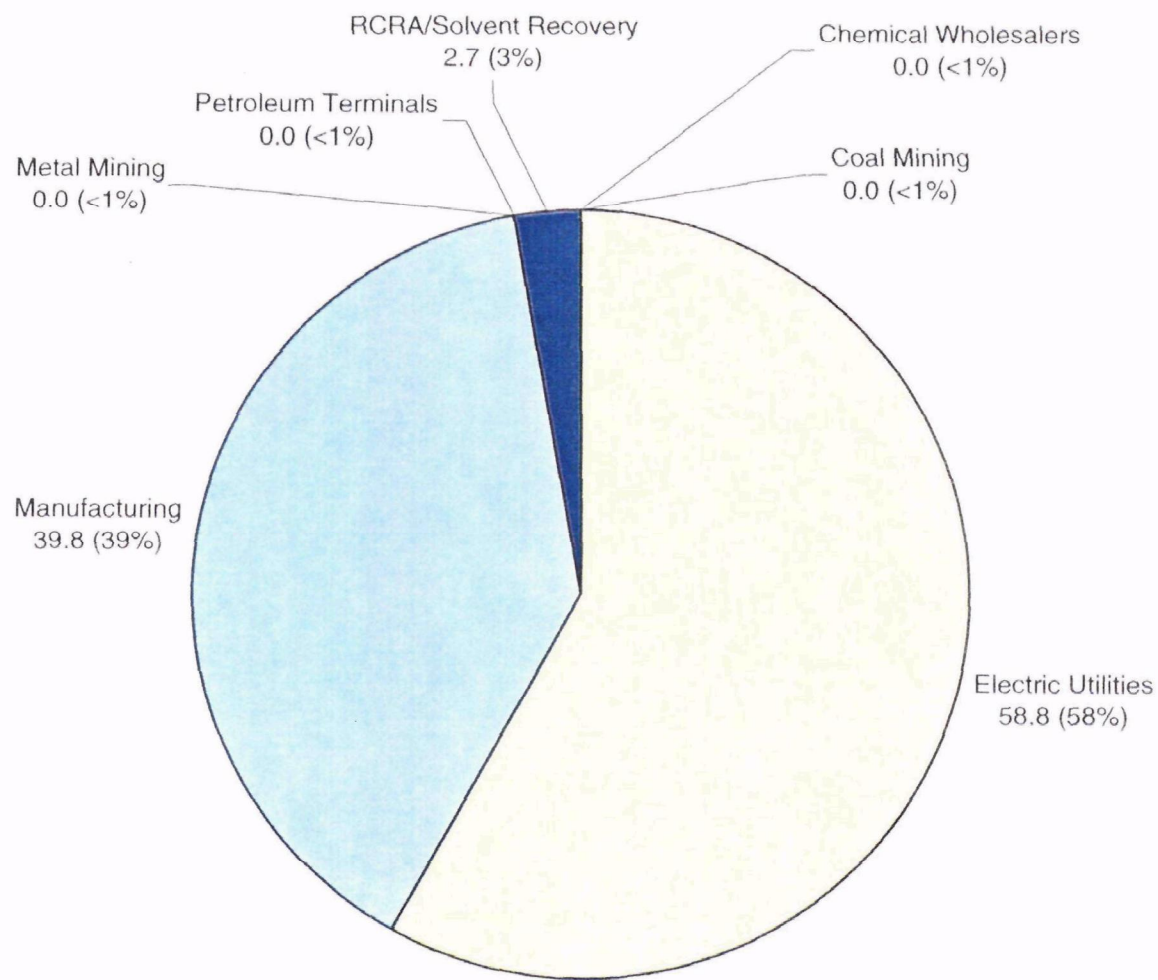
TRI Releases for Kansas, 1998
(in millions of pounds)



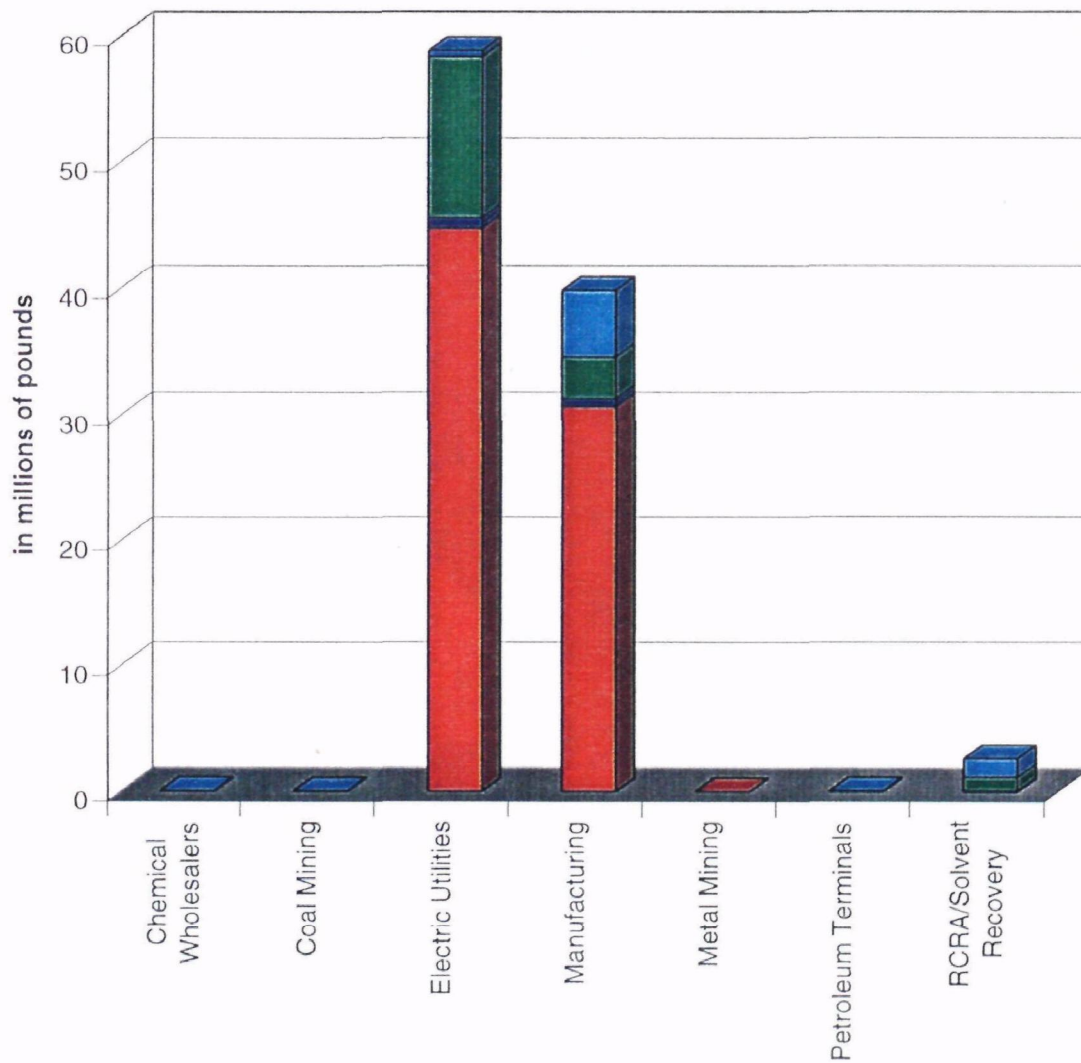
TRI Releases for Kansas, 1998



TRI Releases for Kentucky, 1998
(in millions of pounds)



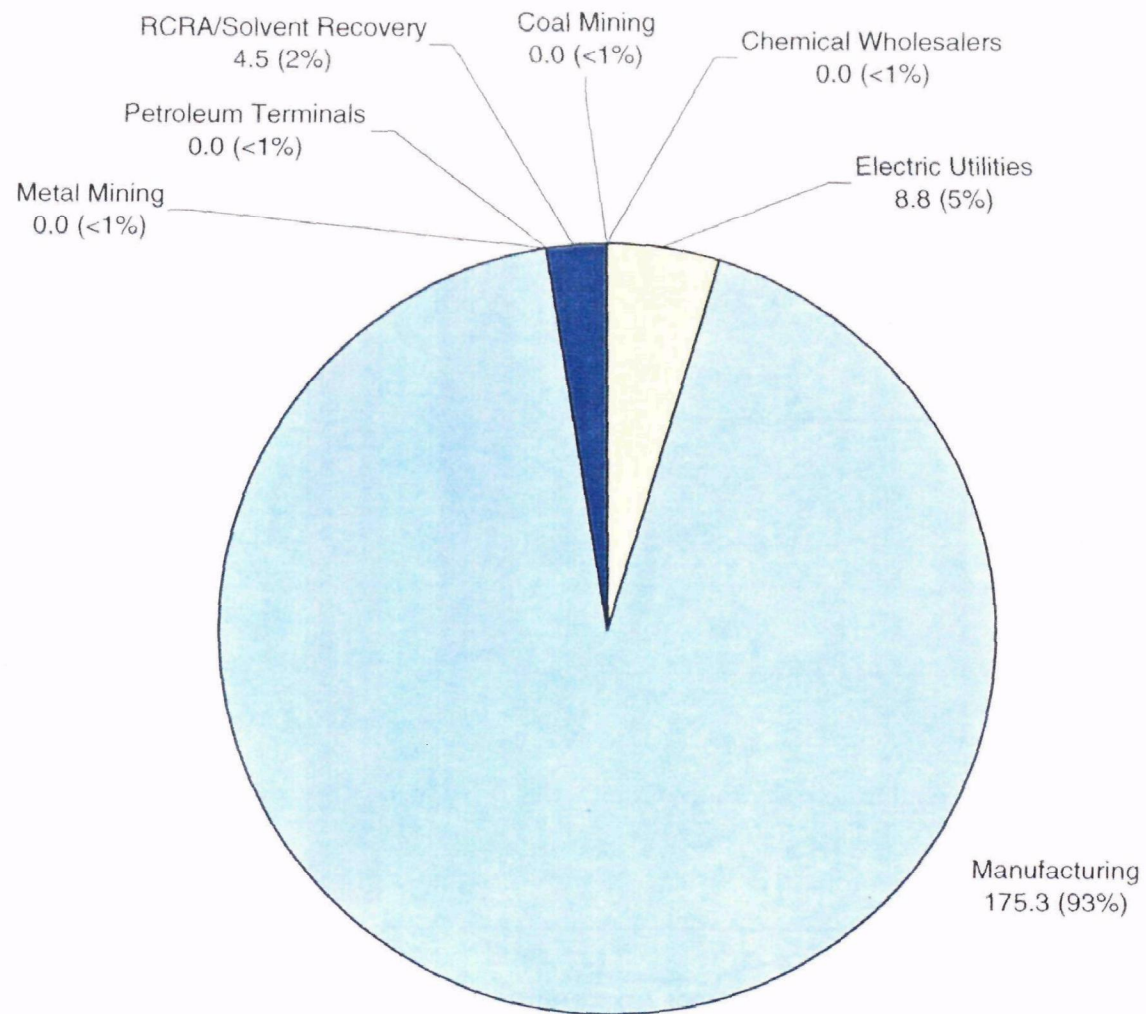
TRI Releases for Kentucky, 1998



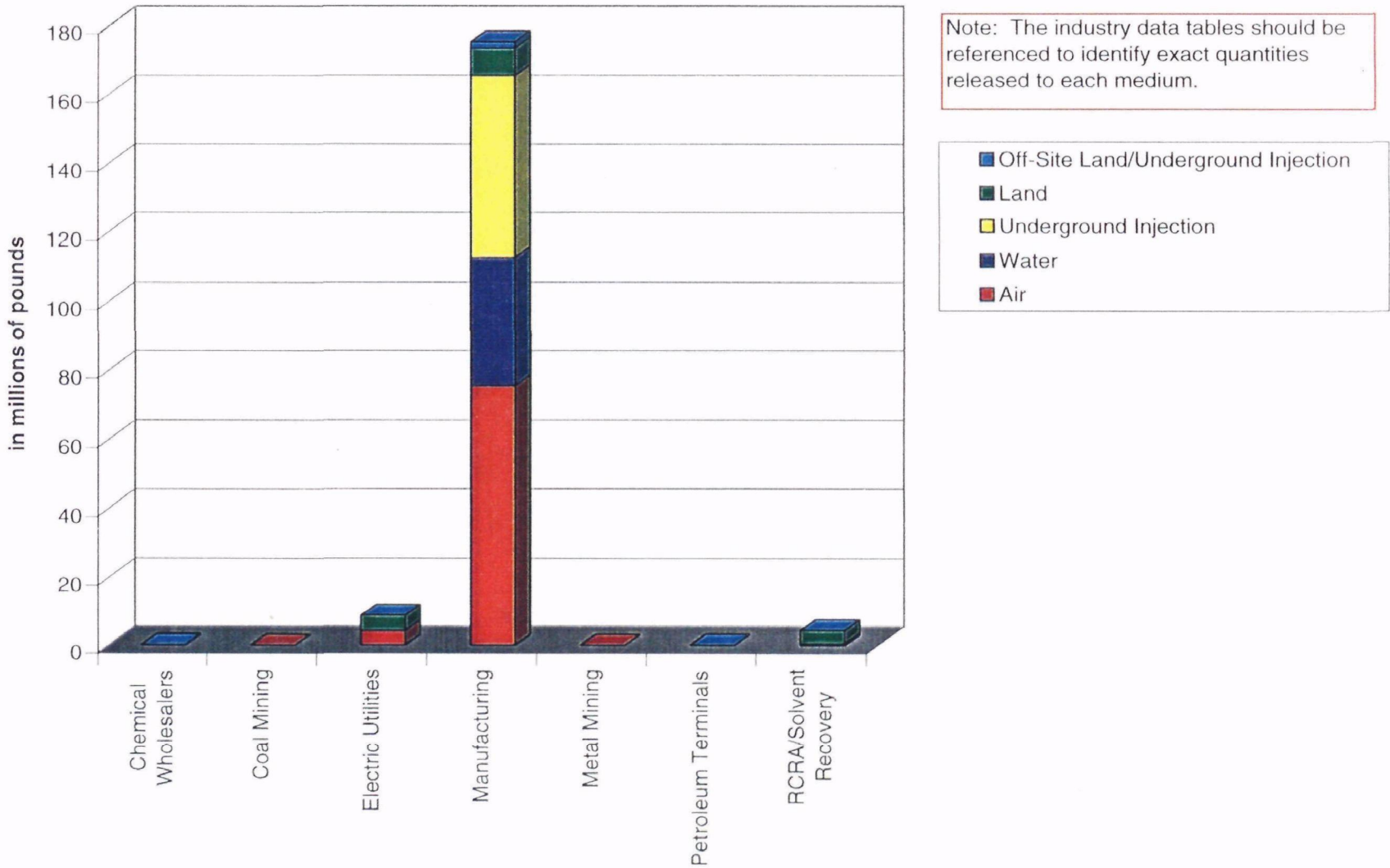
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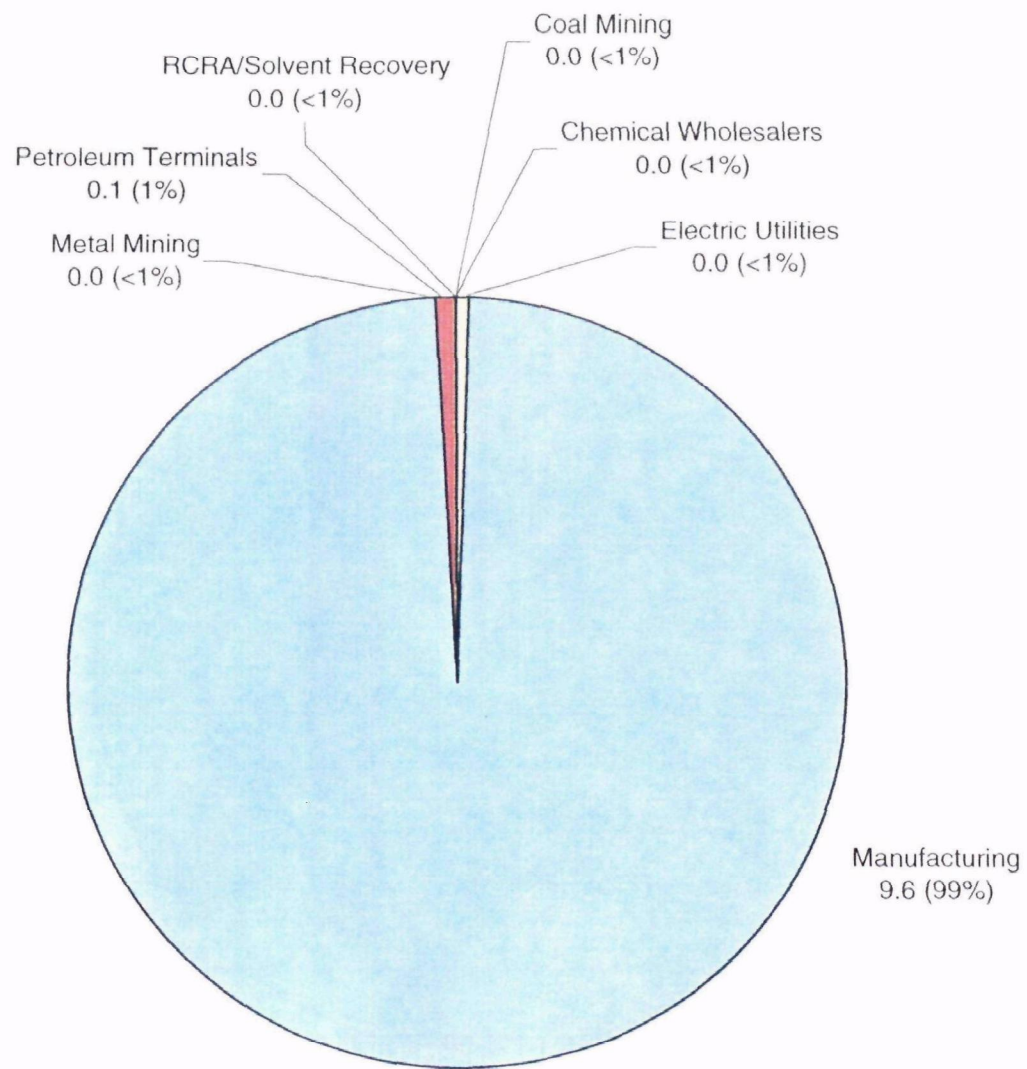
TRI Releases for Louisiana, 1998
(in millions of pounds)



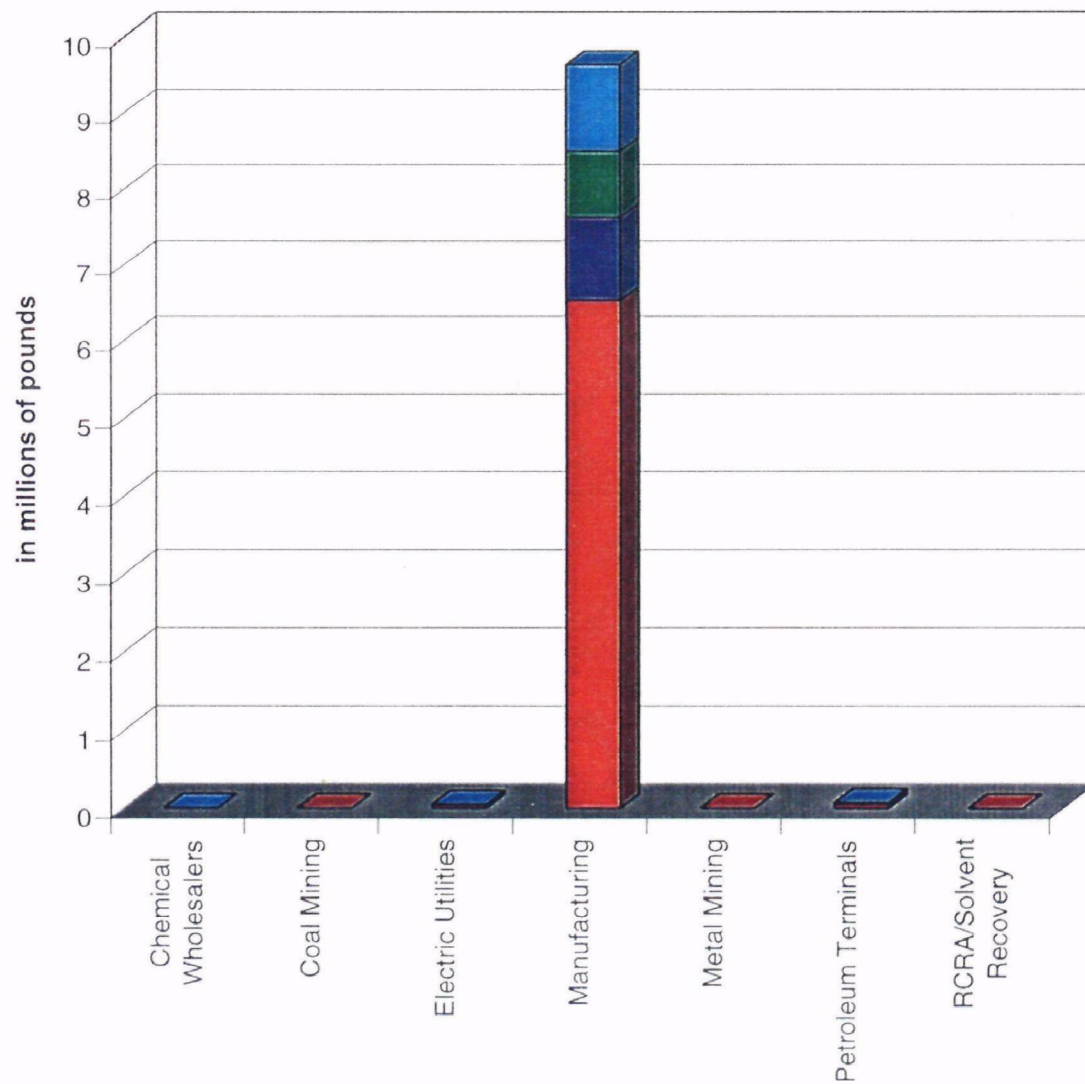
TRI Releases for Louisiana, 1998



TRI Releases for Maine, 1998
(in millions of pounds)



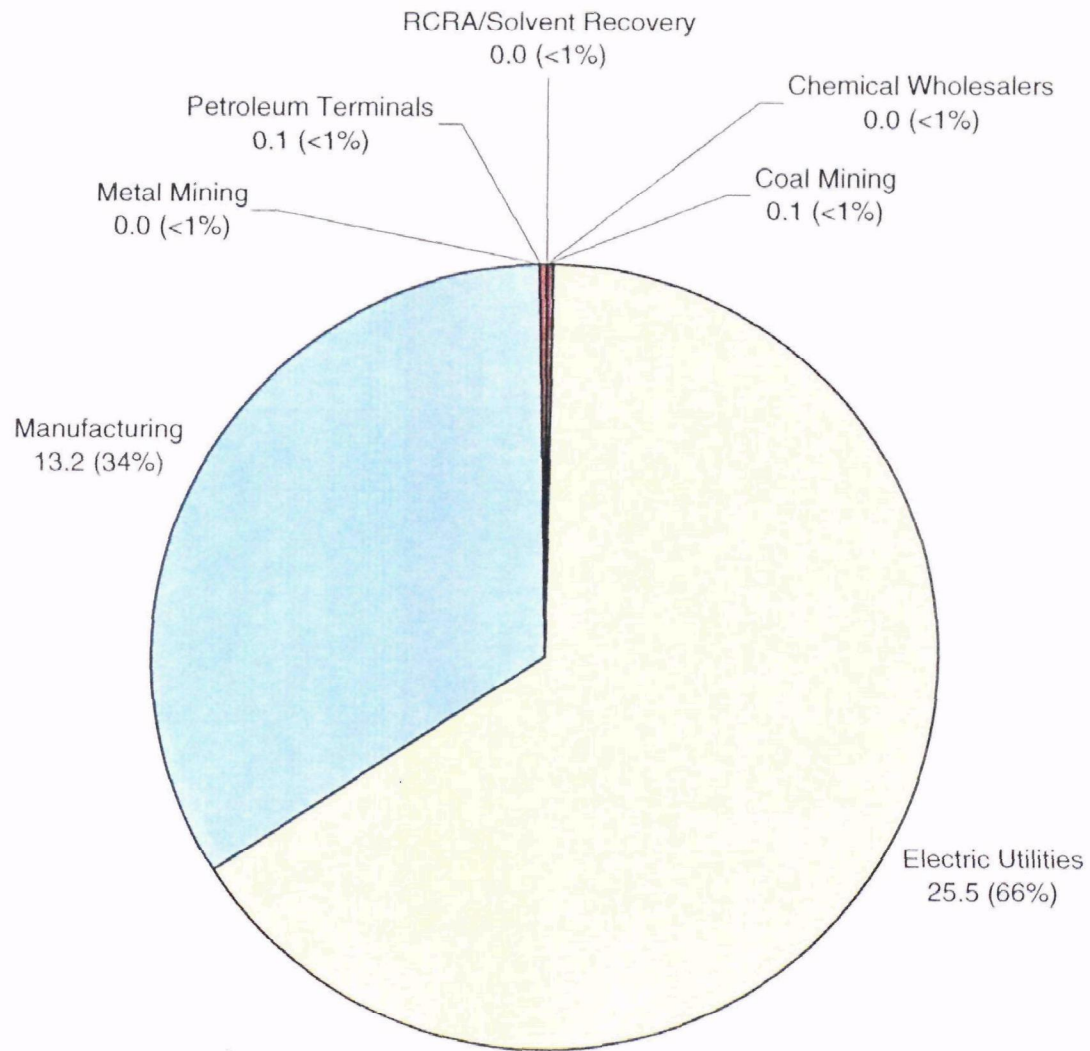
TRI Releases for Maine, 1998



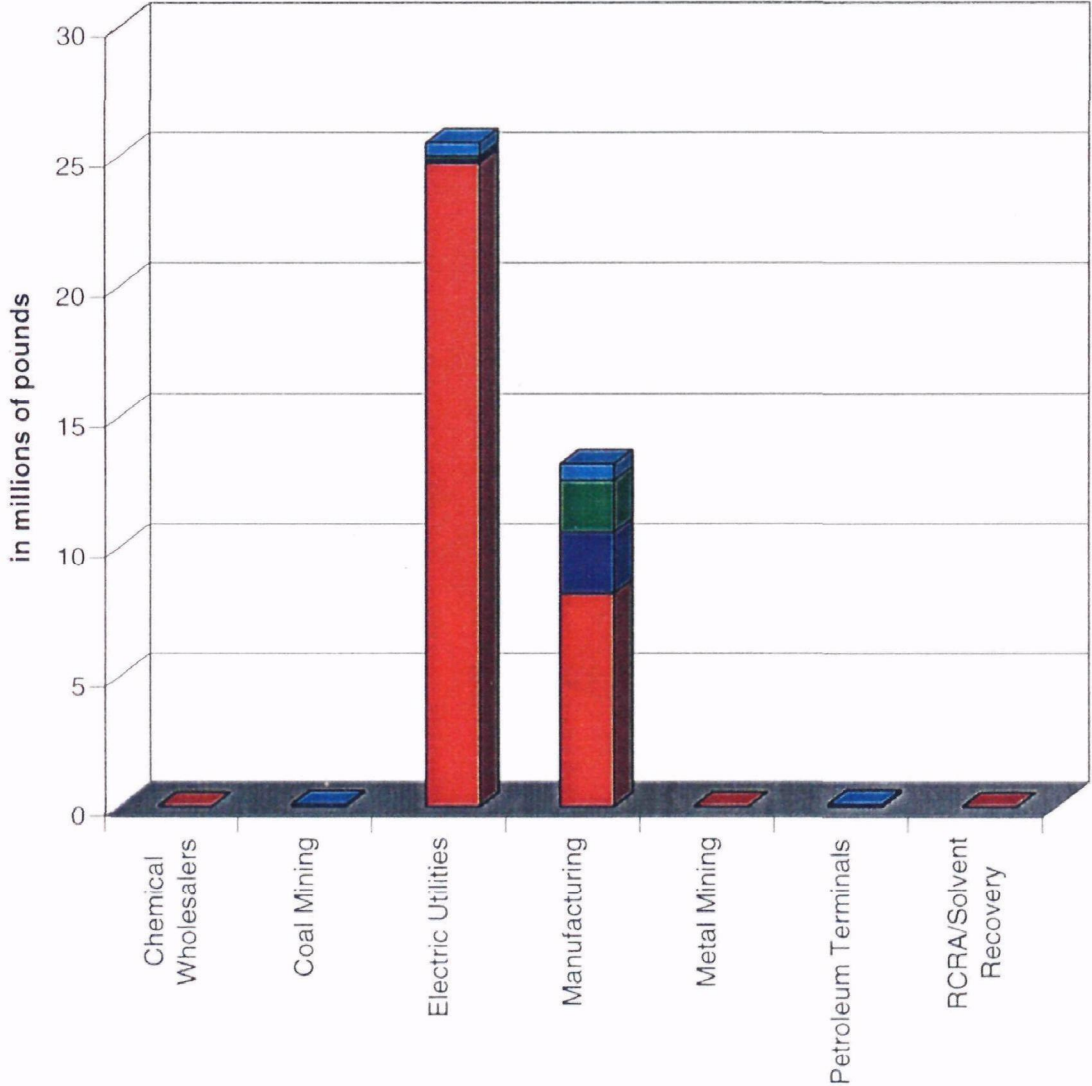
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Maryland, 1998
(in millions of pounds)



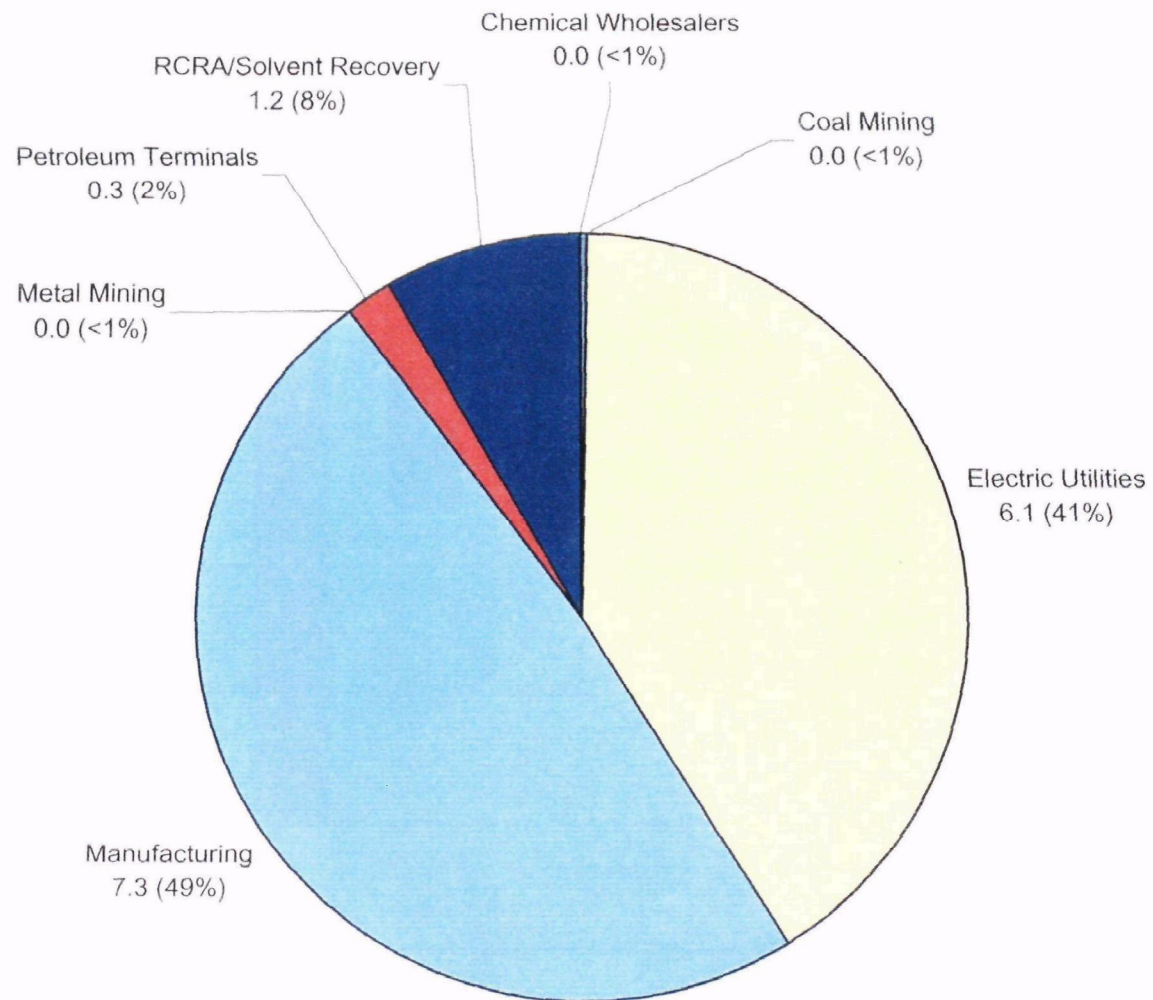
TRI Releases for Maryland, 1998



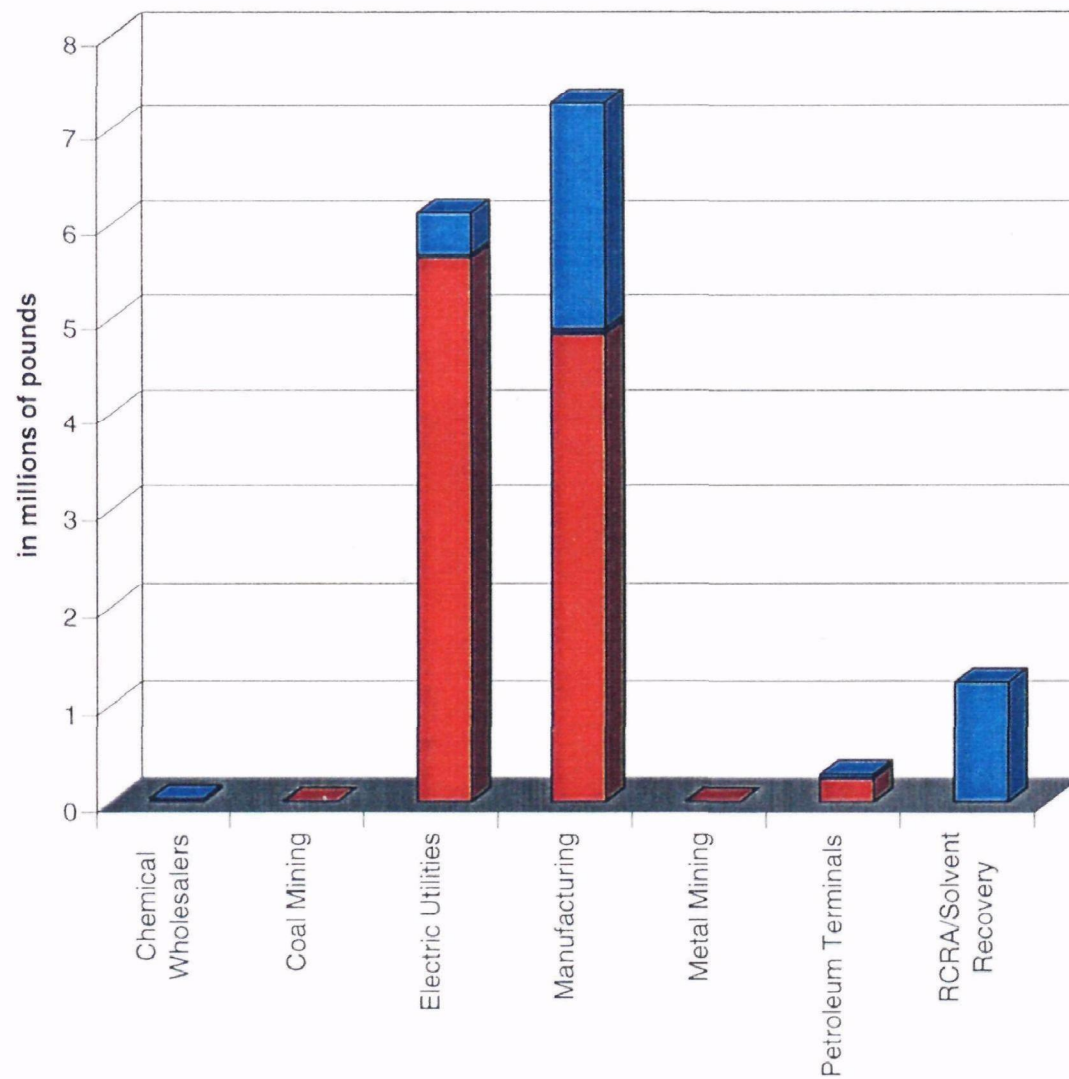
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Massachusetts, 1998
(in millions of pounds)



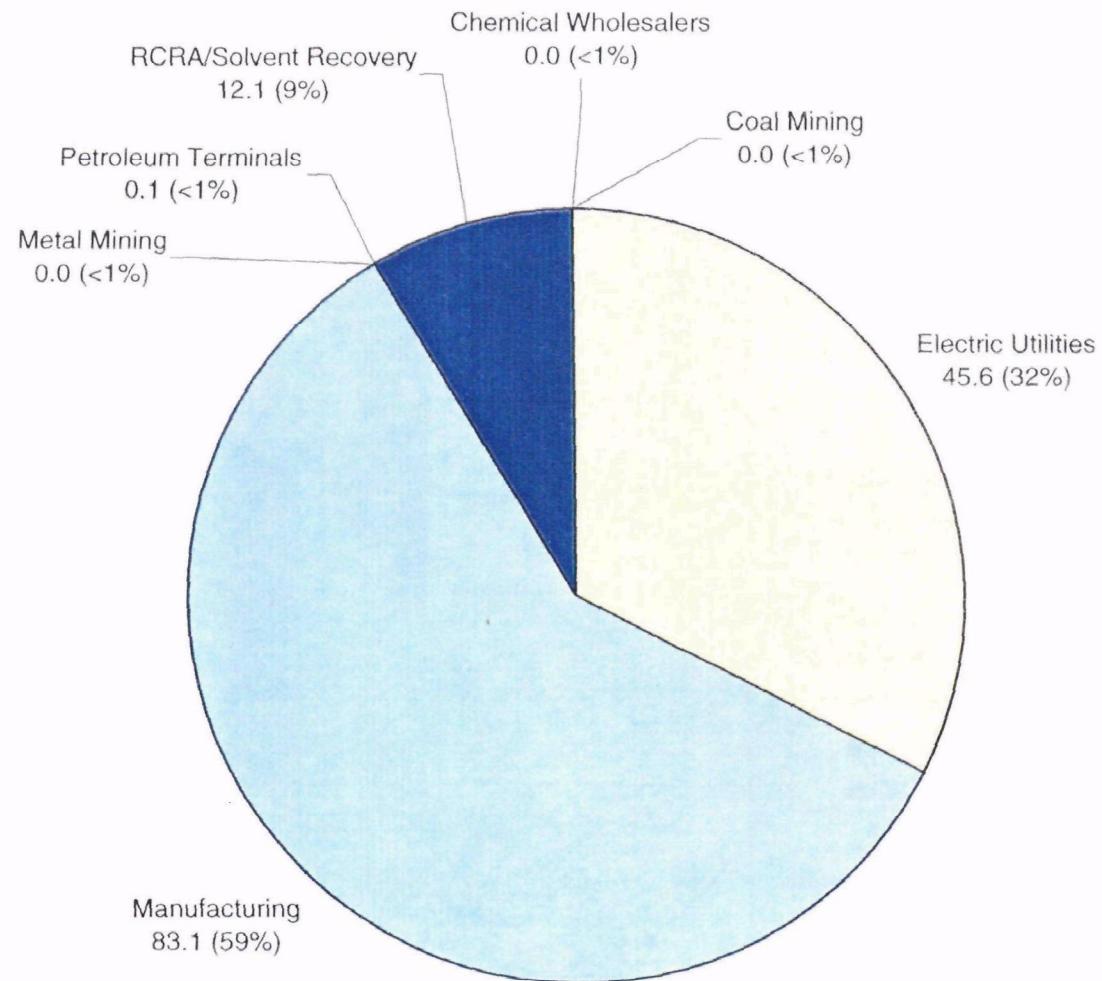
TRI Releases for Massachusetts, 1998



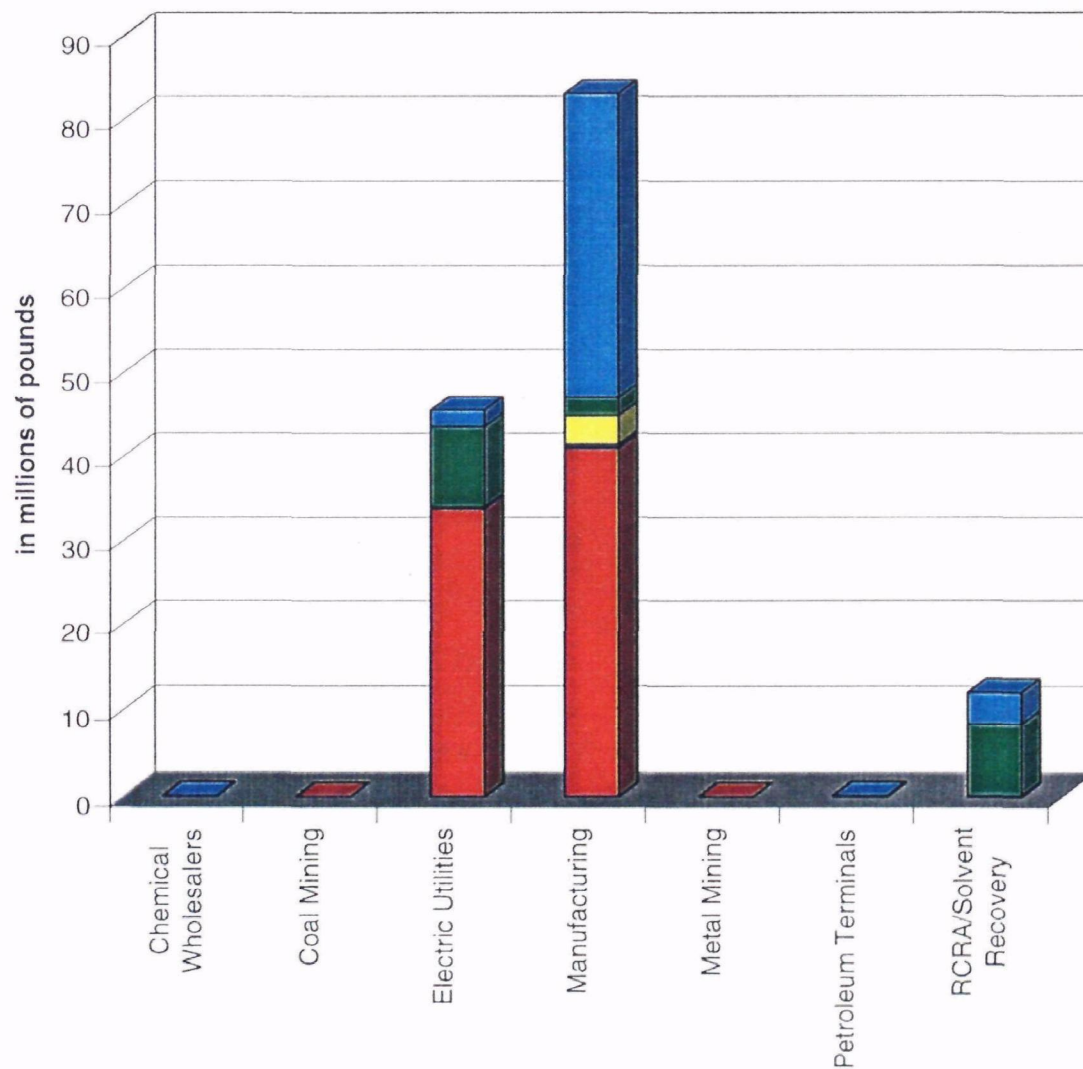
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Michigan, 1998
(in millions of pounds)



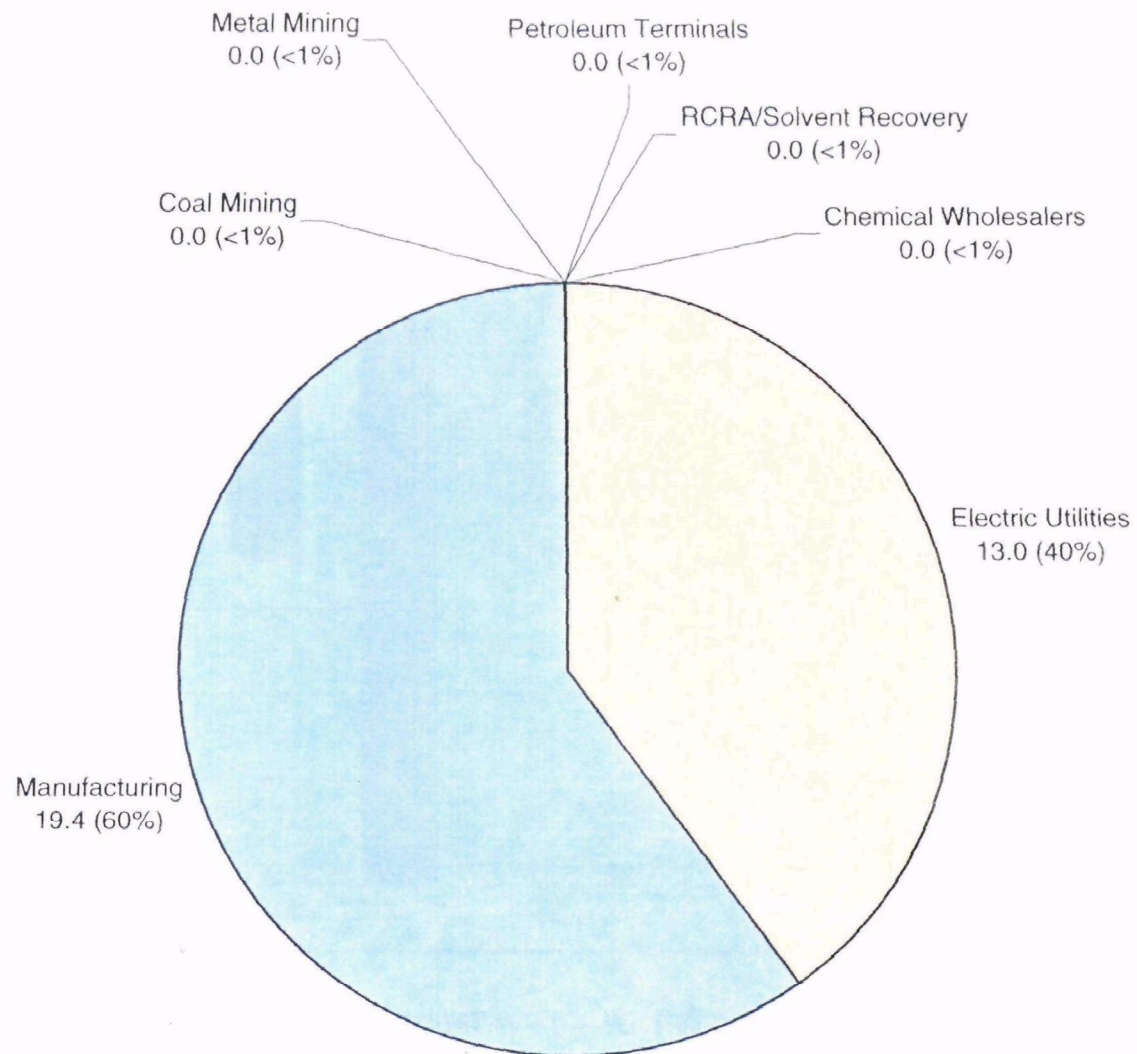
TRI Releases for Michigan, 1998



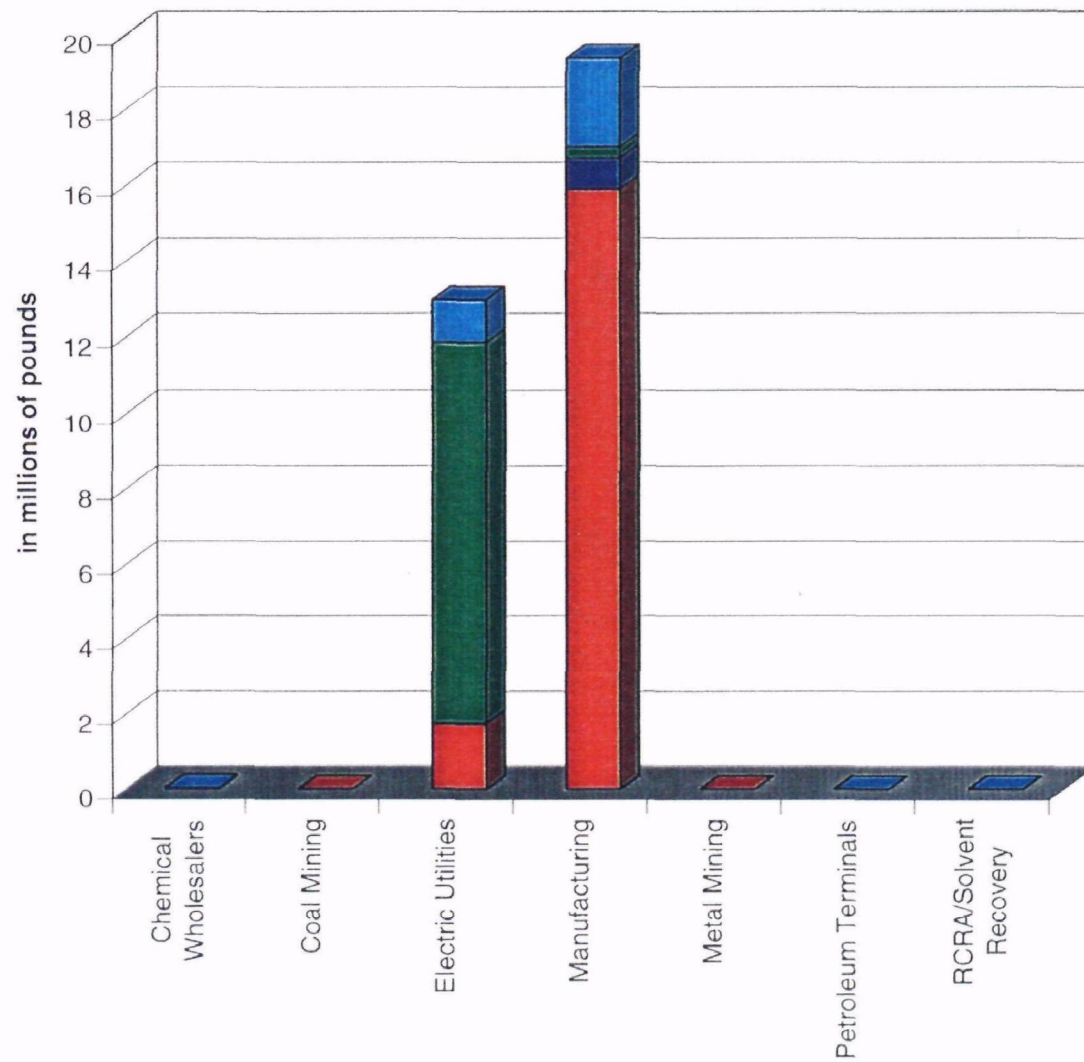
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Minnesota, 1998
(in millions of pounds)



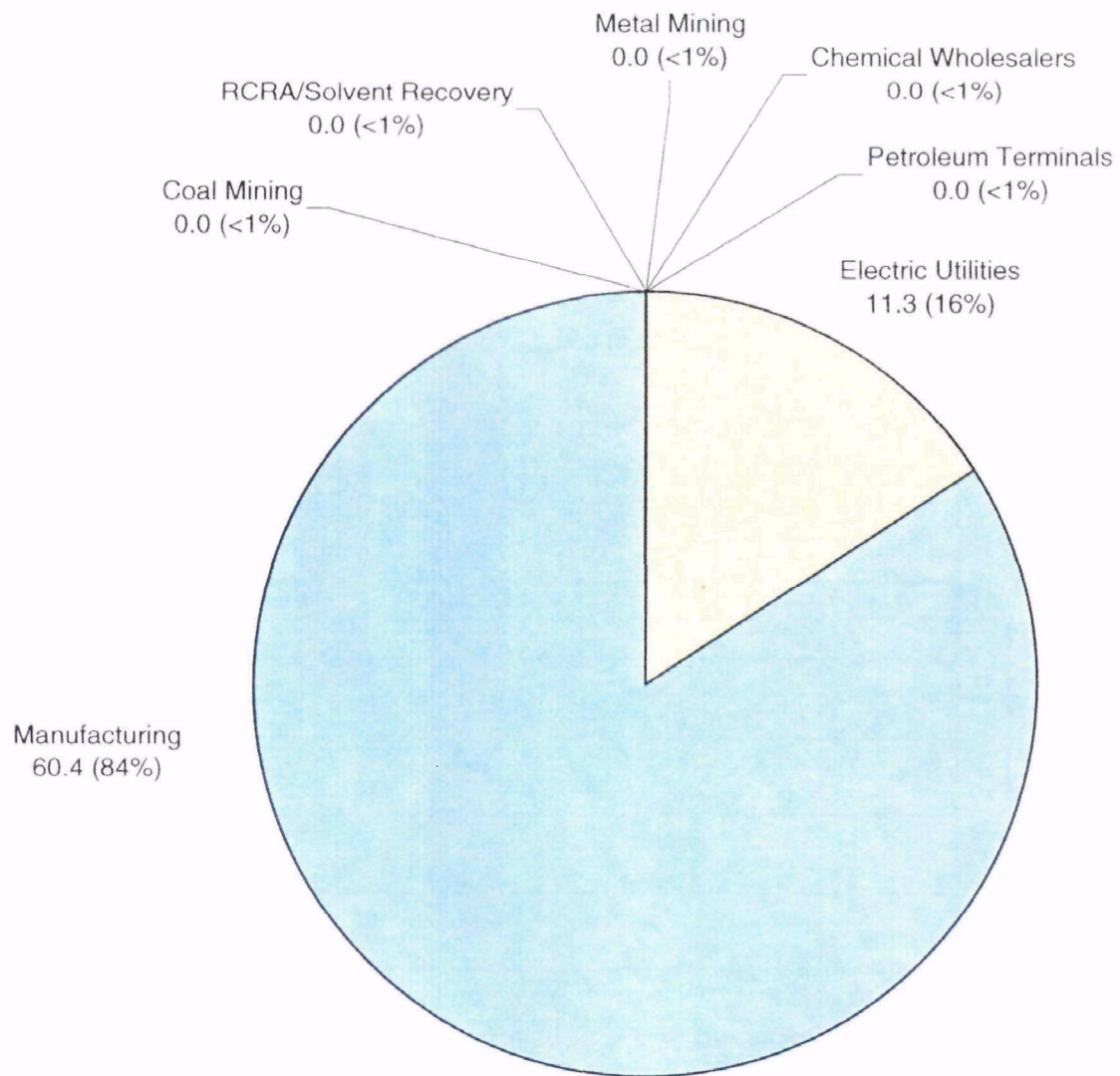
TRI Releases for Minnesota, 1998



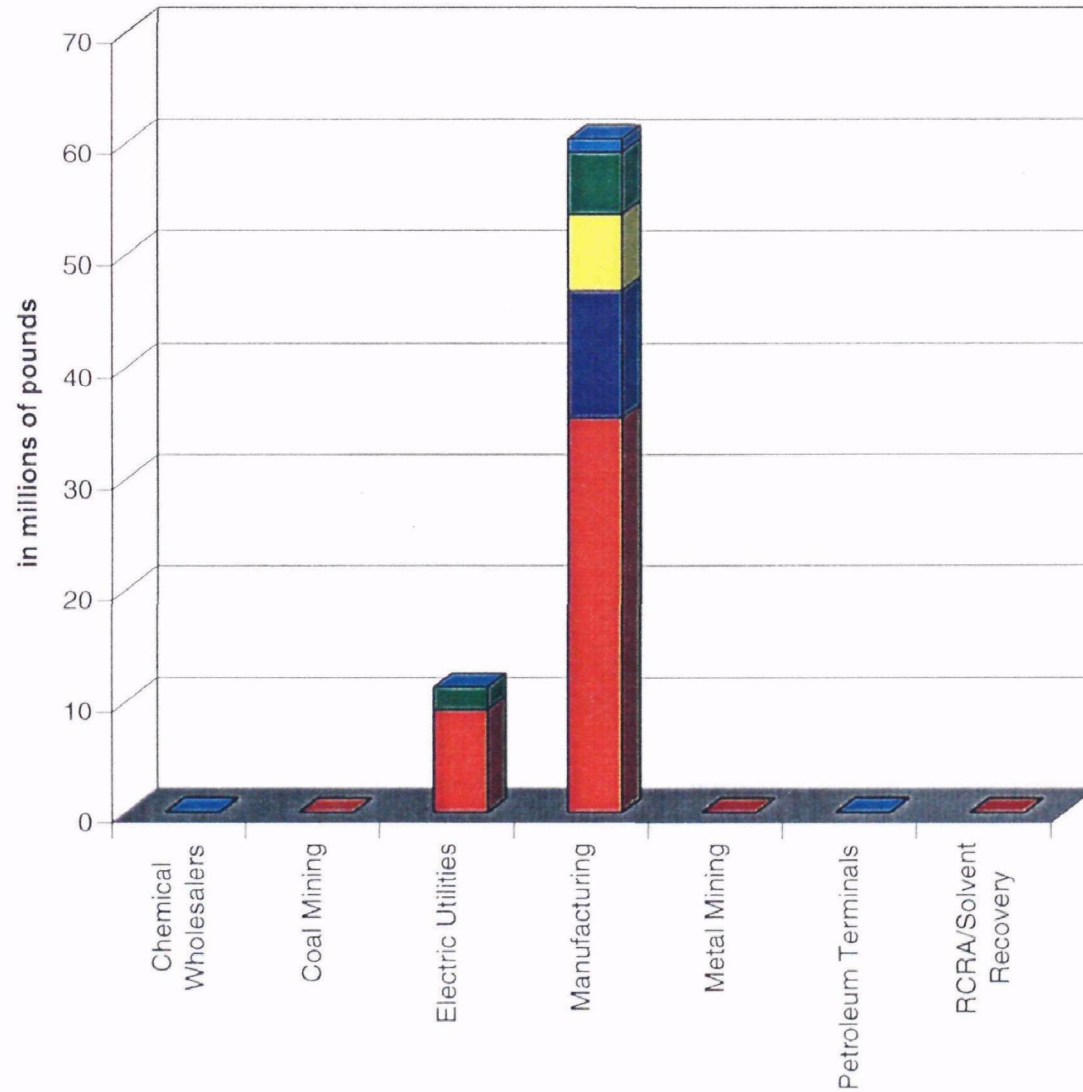
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Mississippi, 1998
(in millions of pounds)



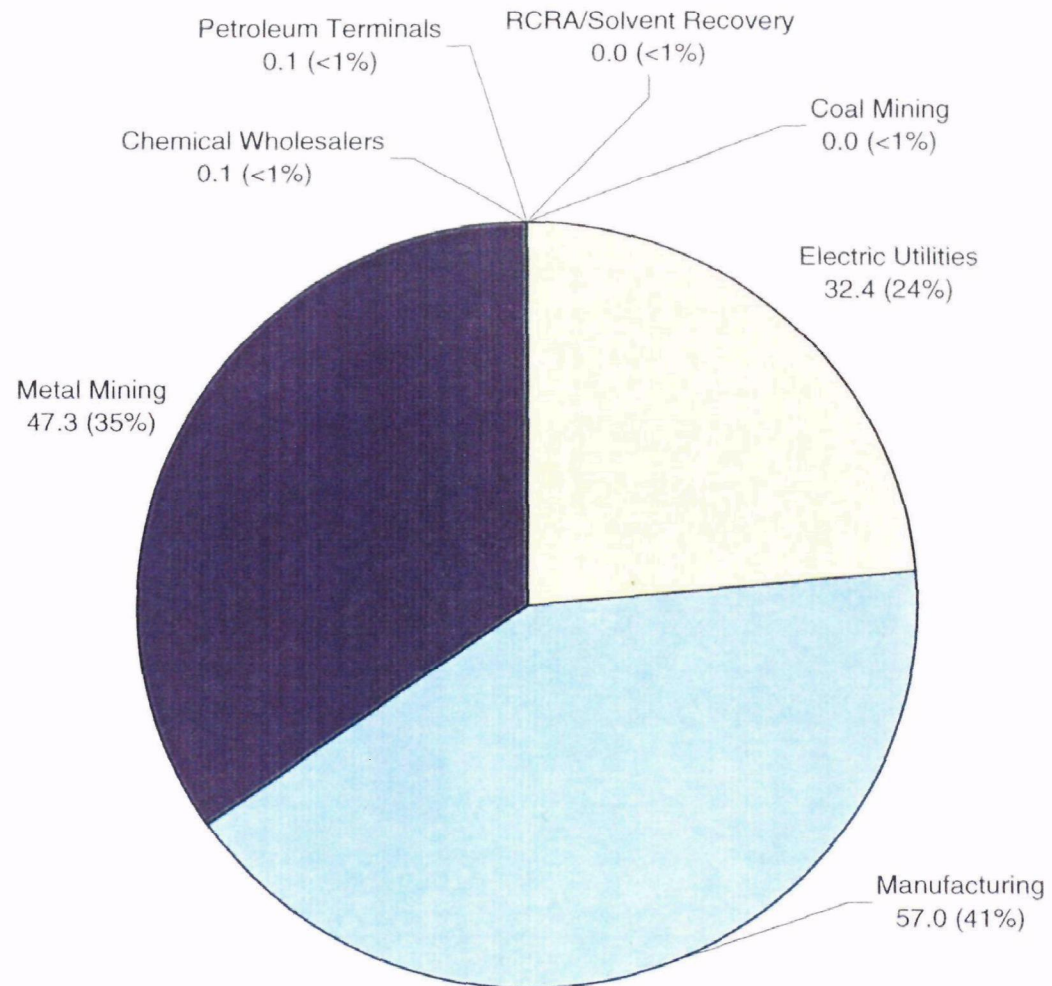
TRI Releases for Mississippi, 1998



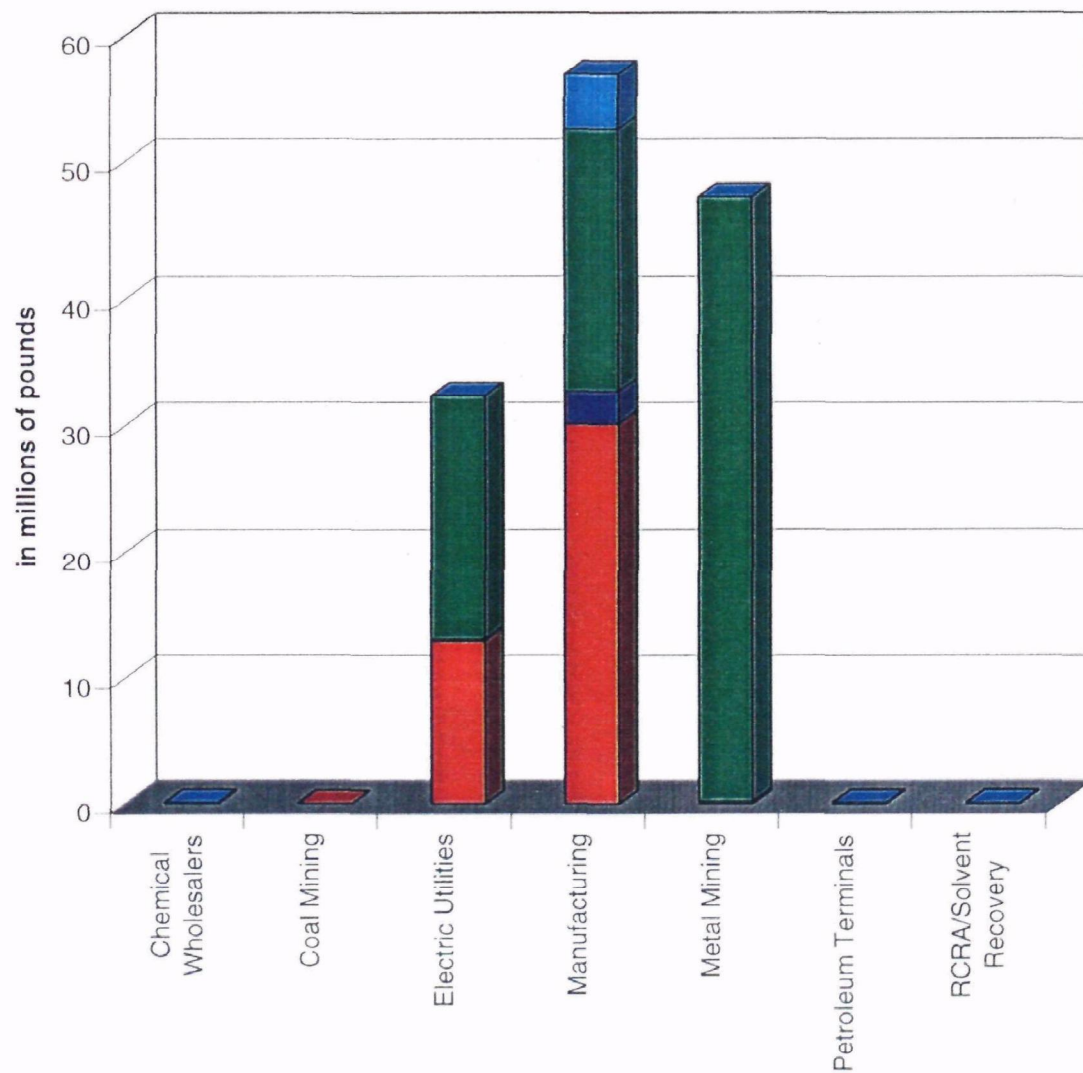
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Missouri, 1998
(in millions of pounds)



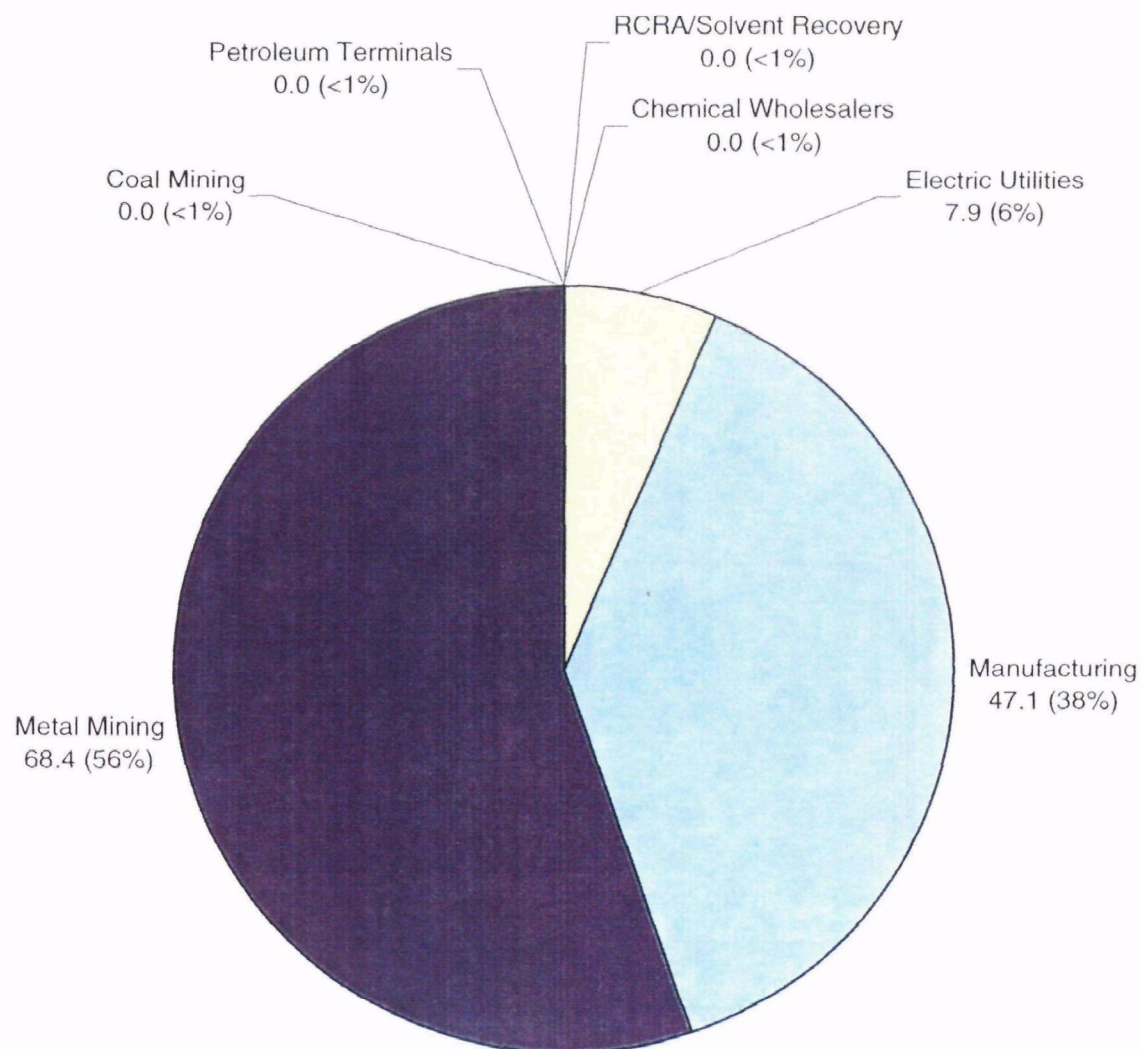
TRI Releases for Missouri, 1998



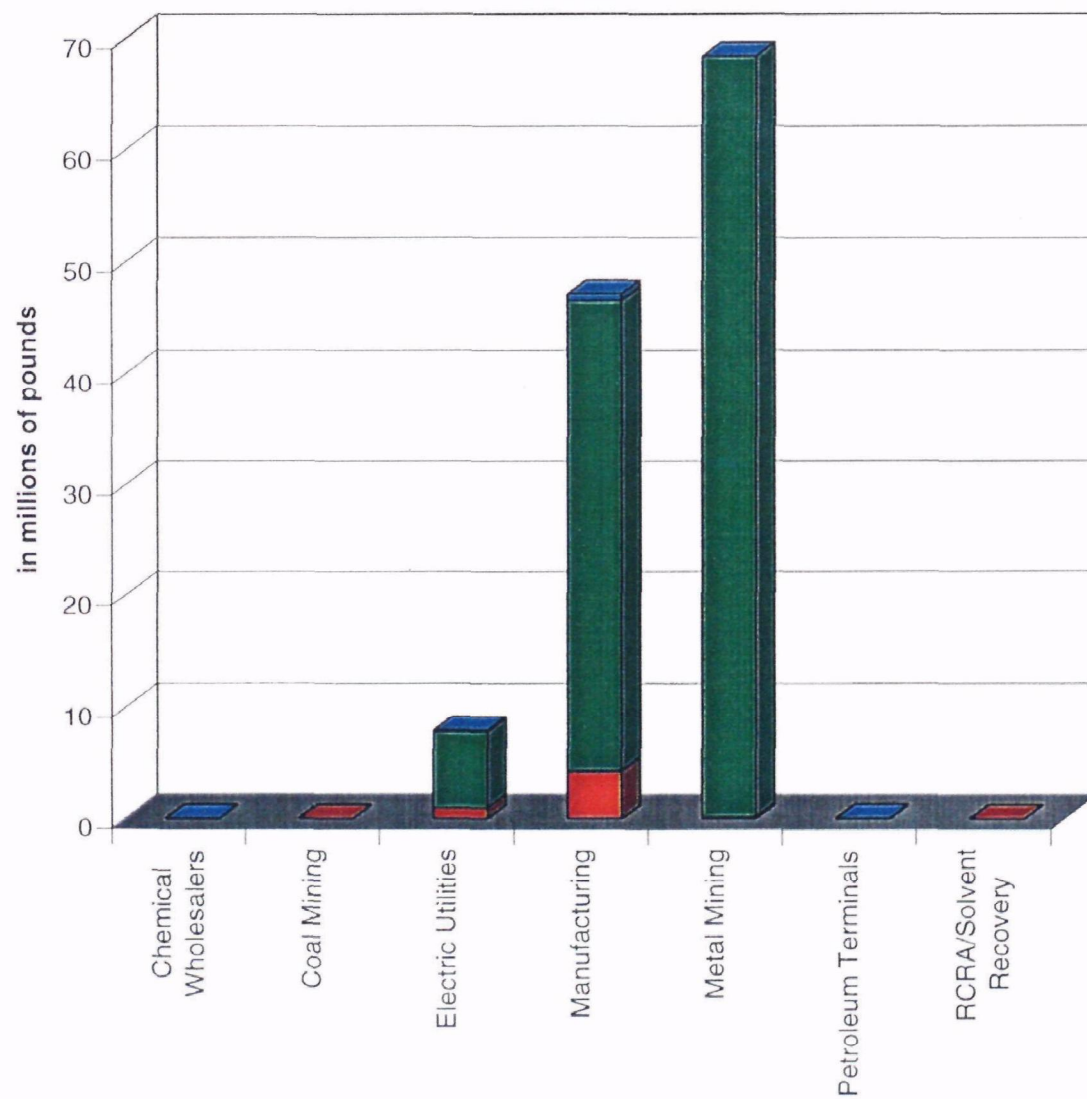
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Montana, 1998
(in millions of pounds)



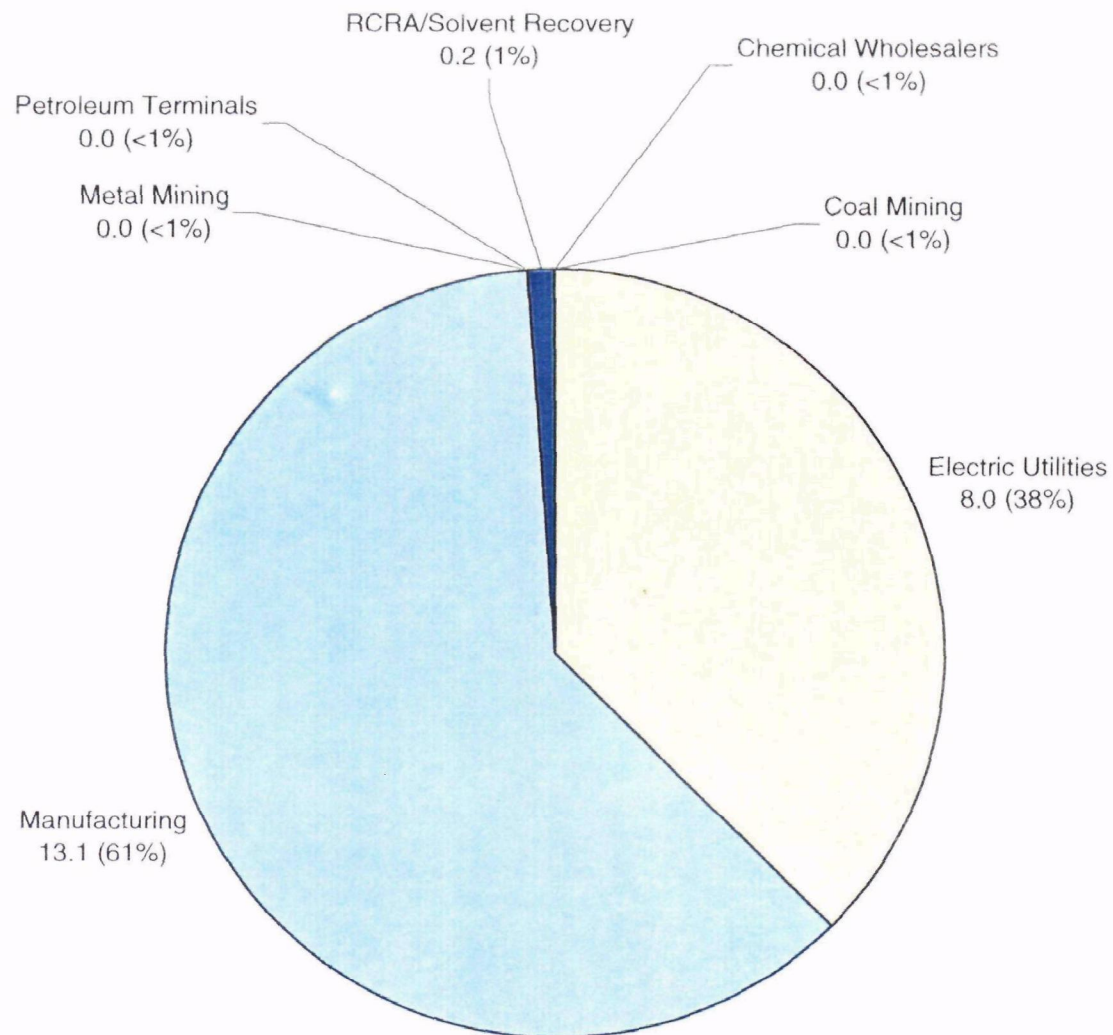
TRI Releases for Montana, 1998



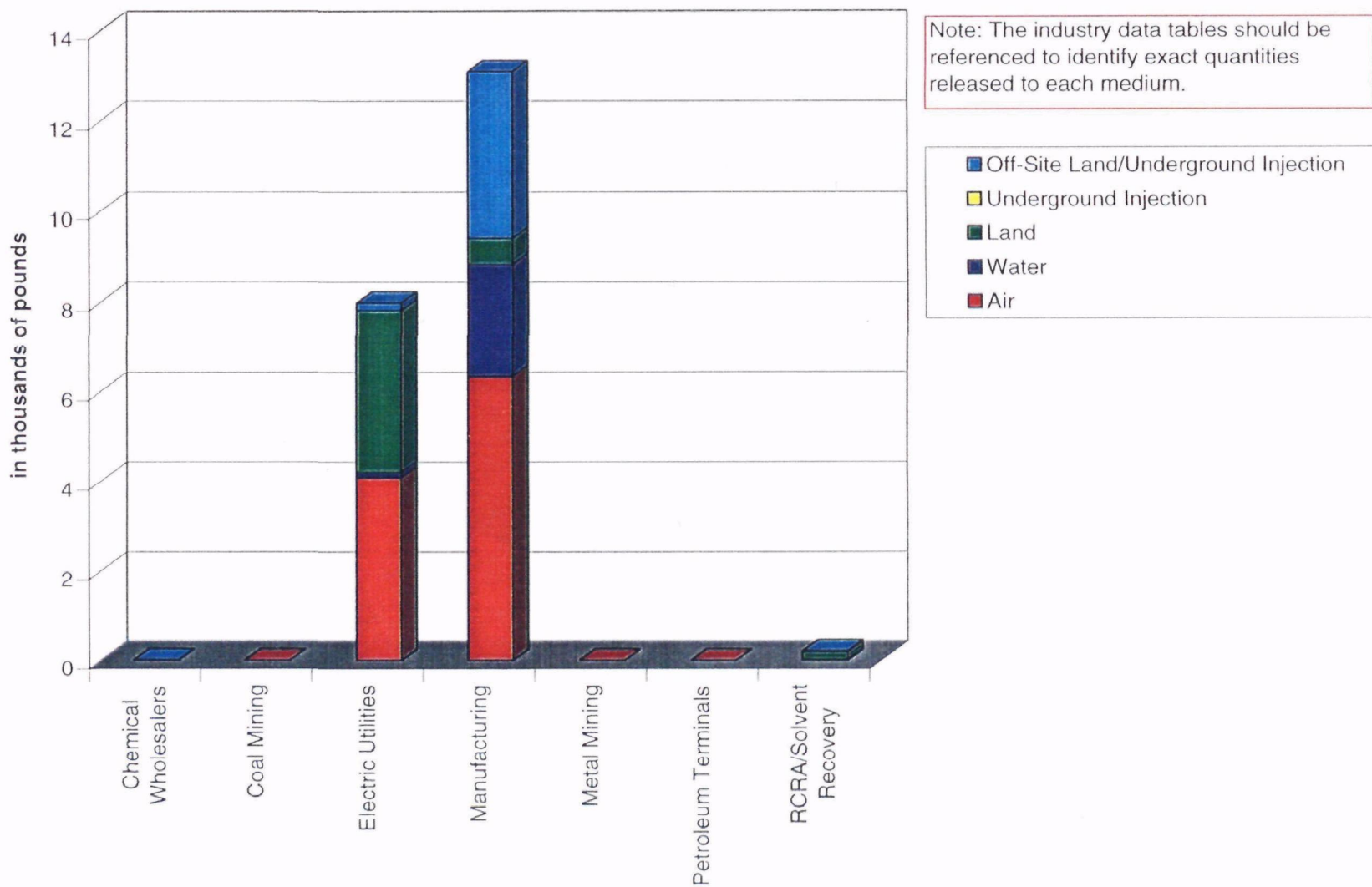
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Nebraska, 1998
(in millions of pounds)

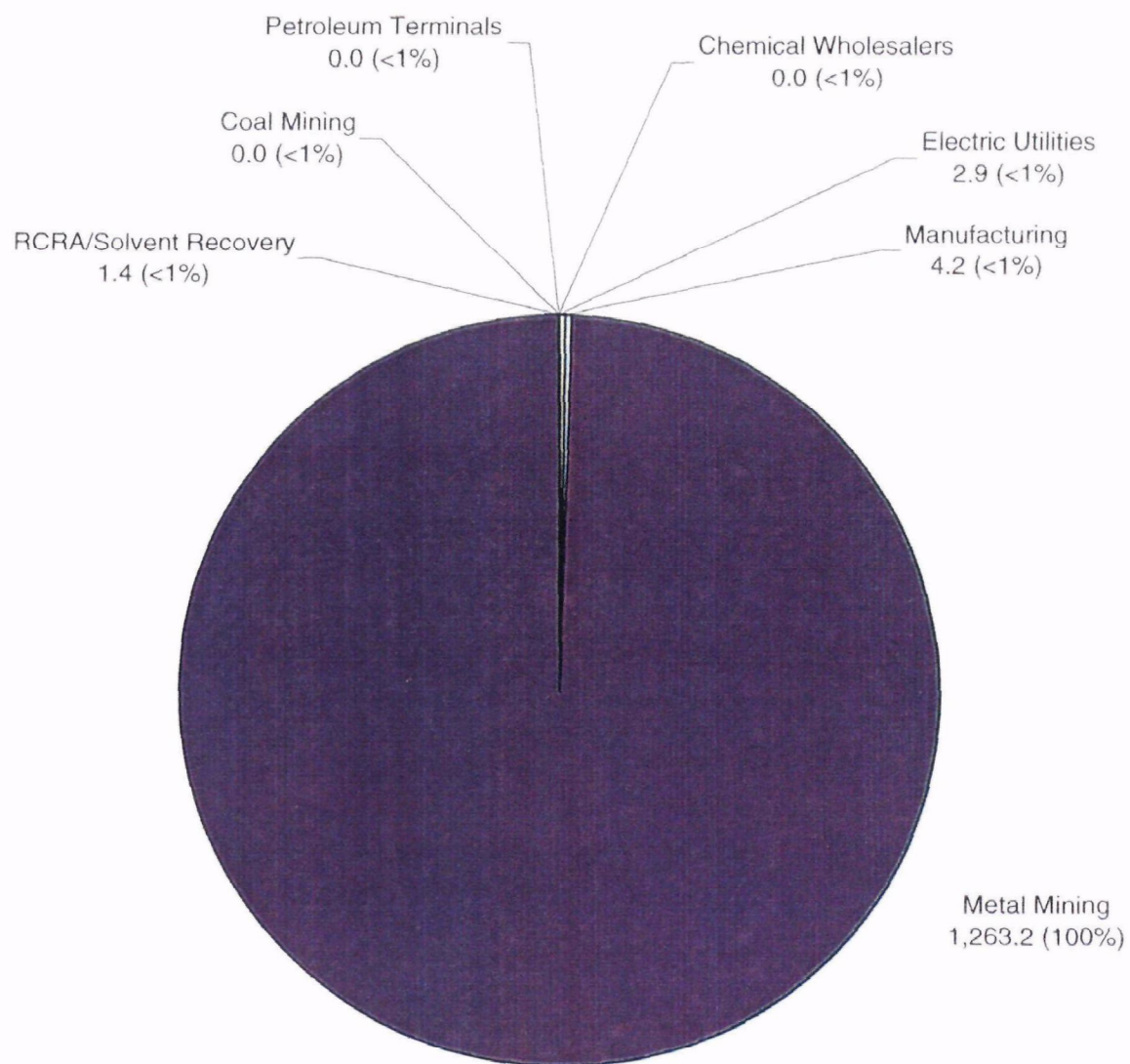


TRI Releases for Nebraska, 1998

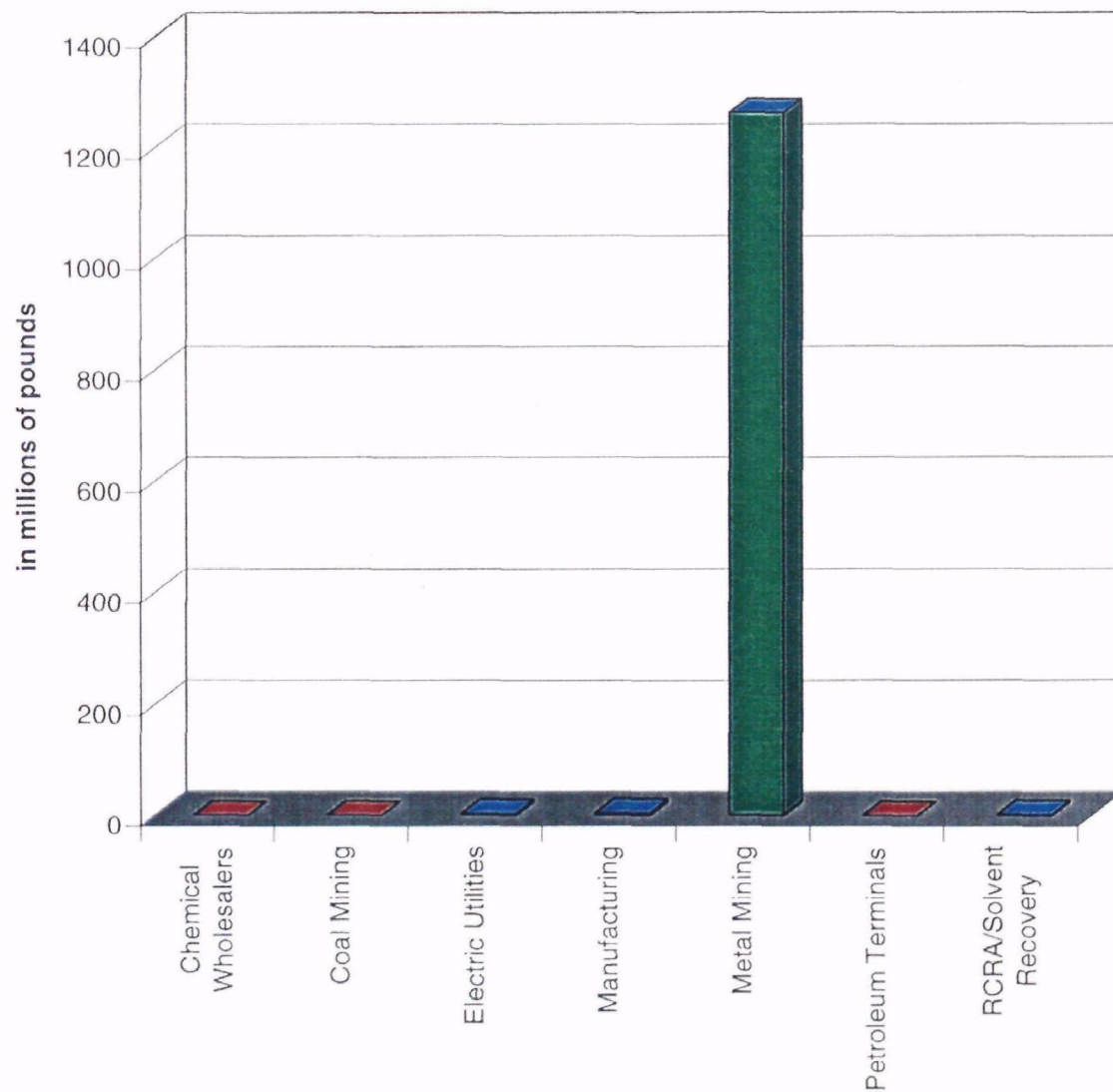


TRI Releases for Nevada, 1998

(in millions of pounds)



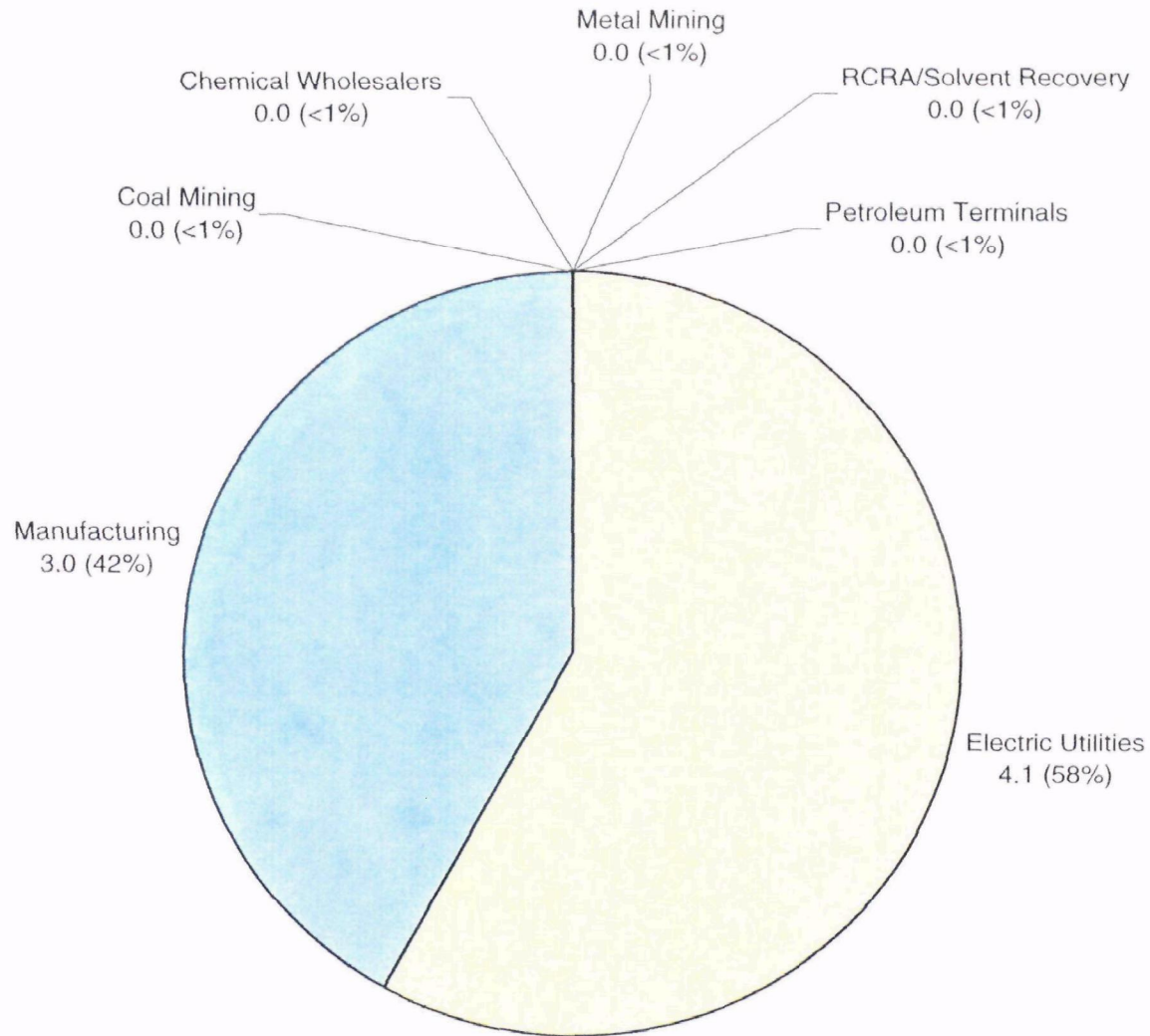
TRI Releases for Nevada, 1998



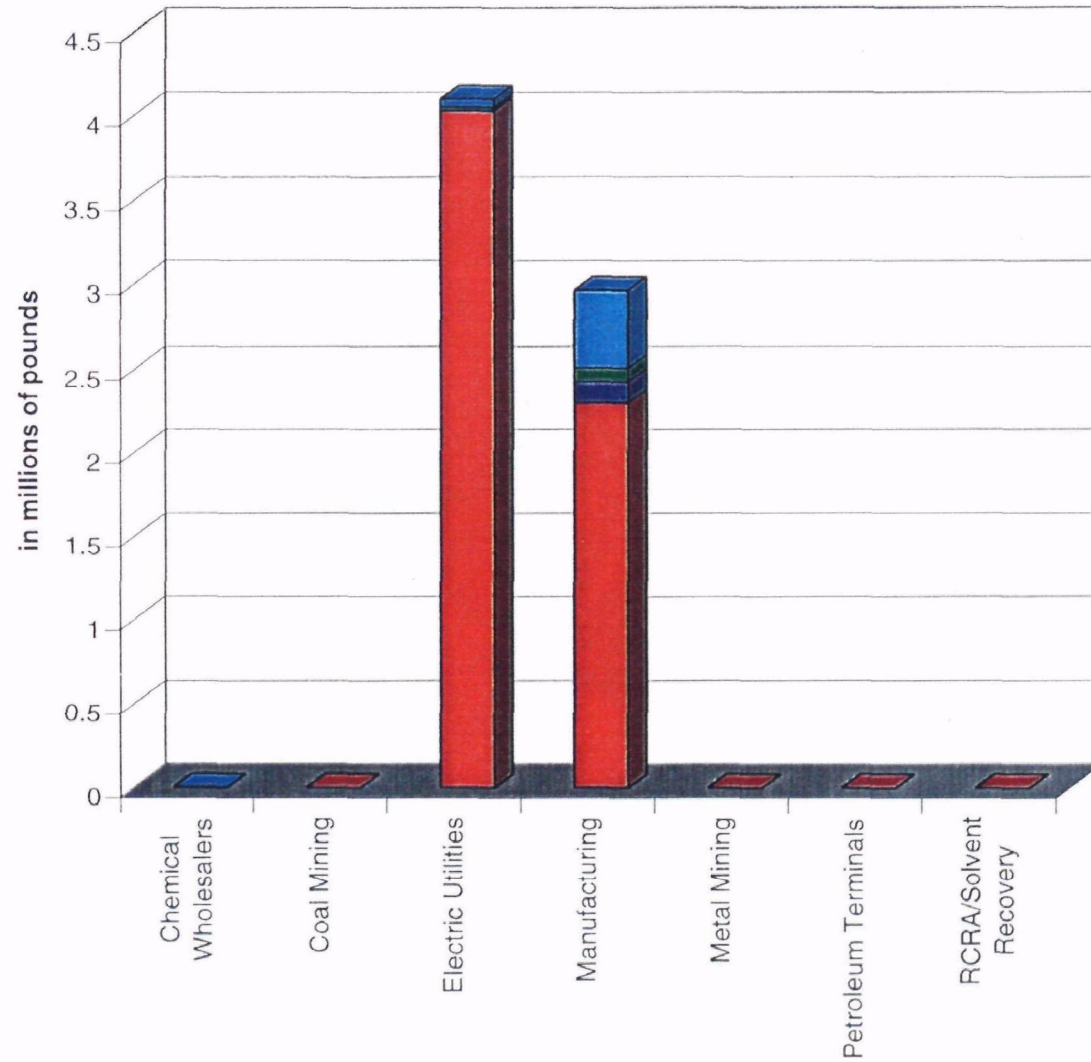
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for New Hampshire, 1998
(in millions of pounds)



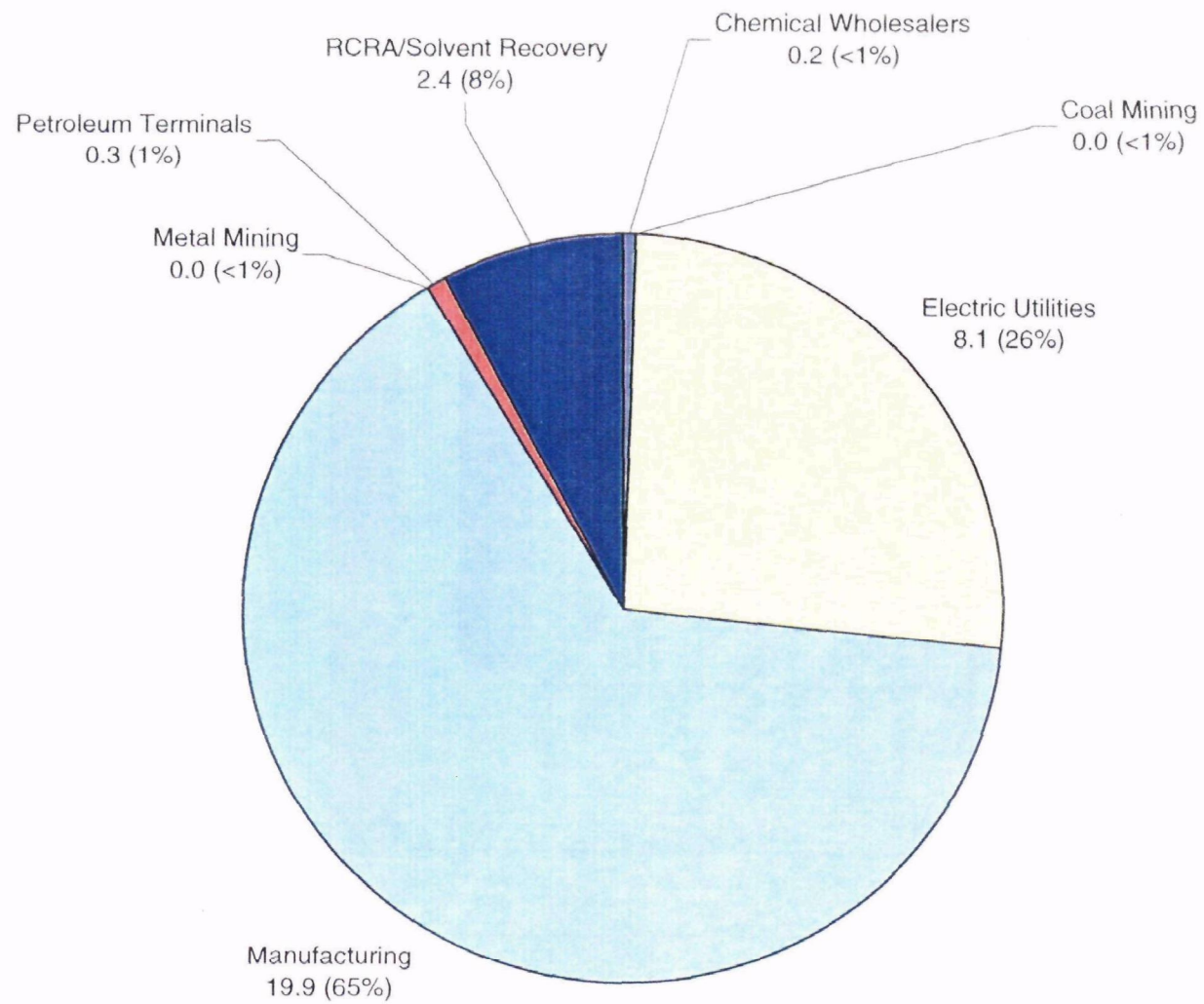
TRI Releases for New Hampshire, 1998



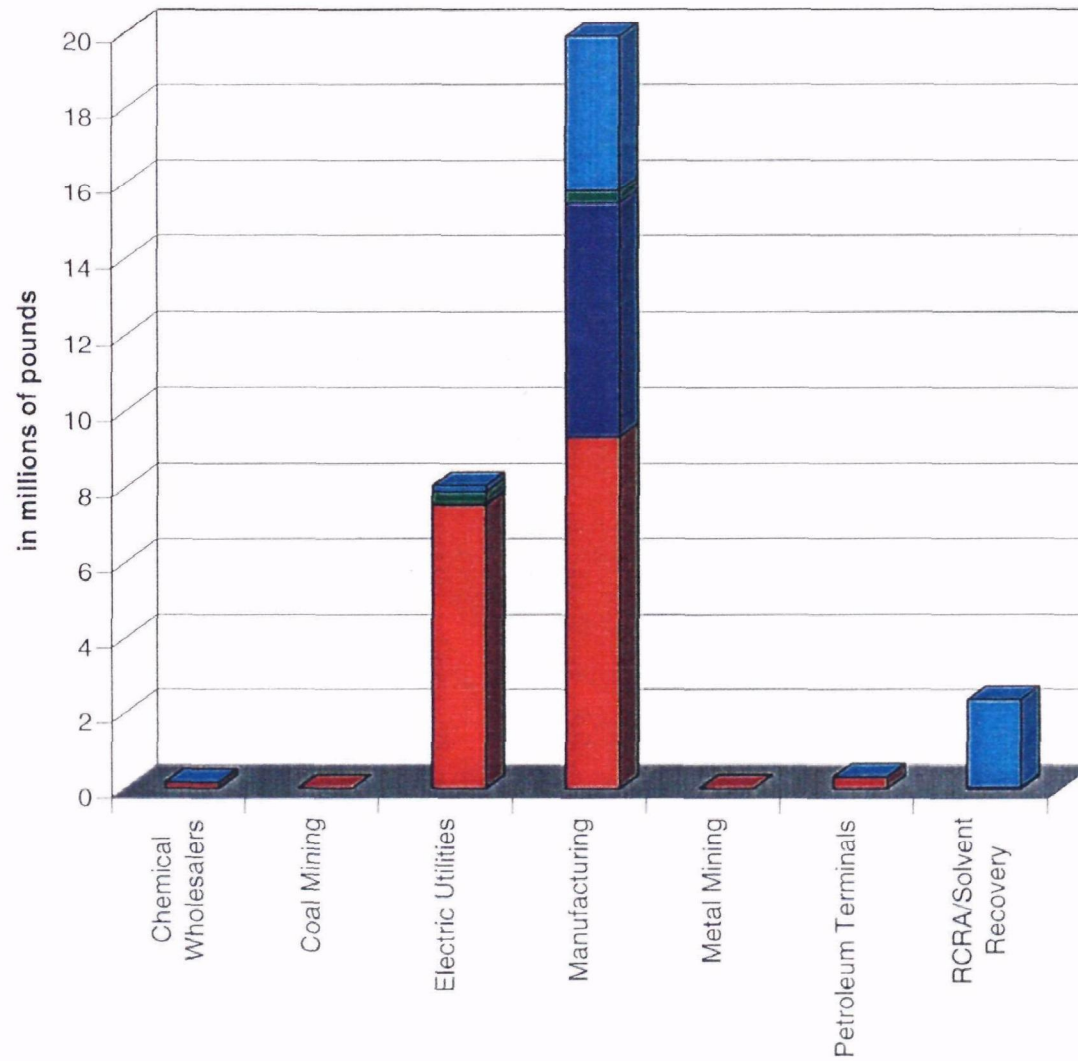
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for New Jersey, 1998
(in millions of pounds)



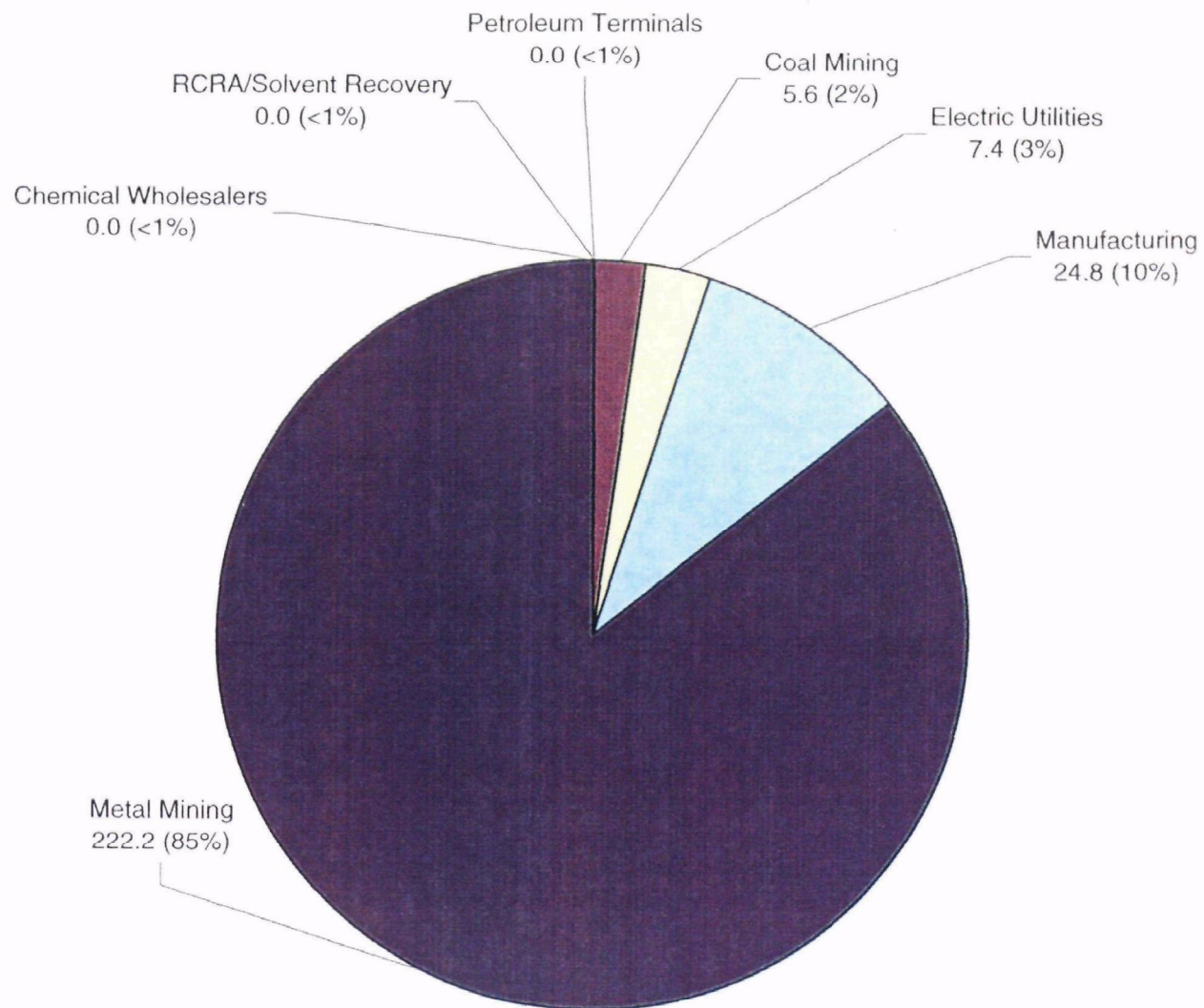
TRI Releases for New Jersey, 1998



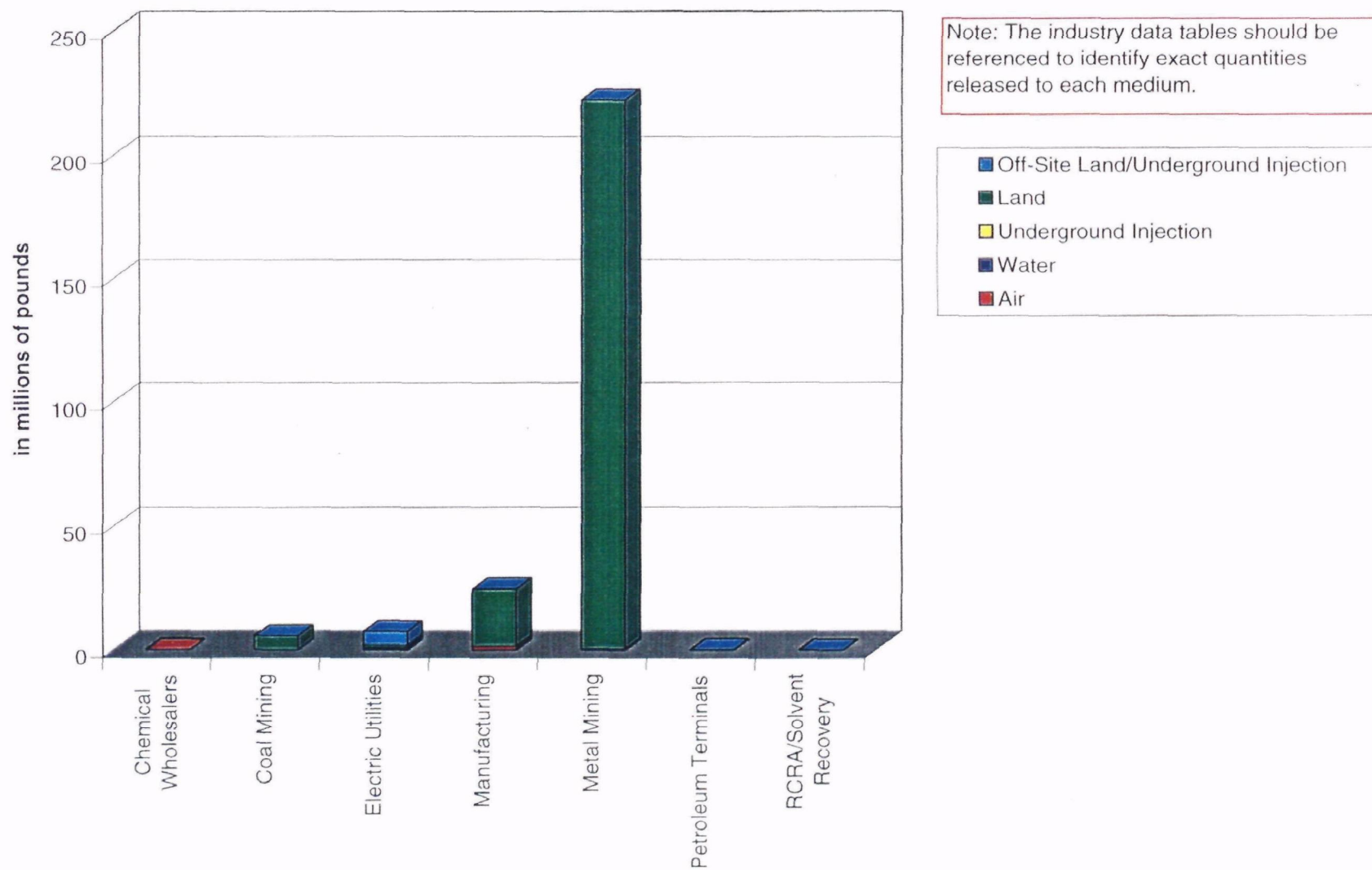
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

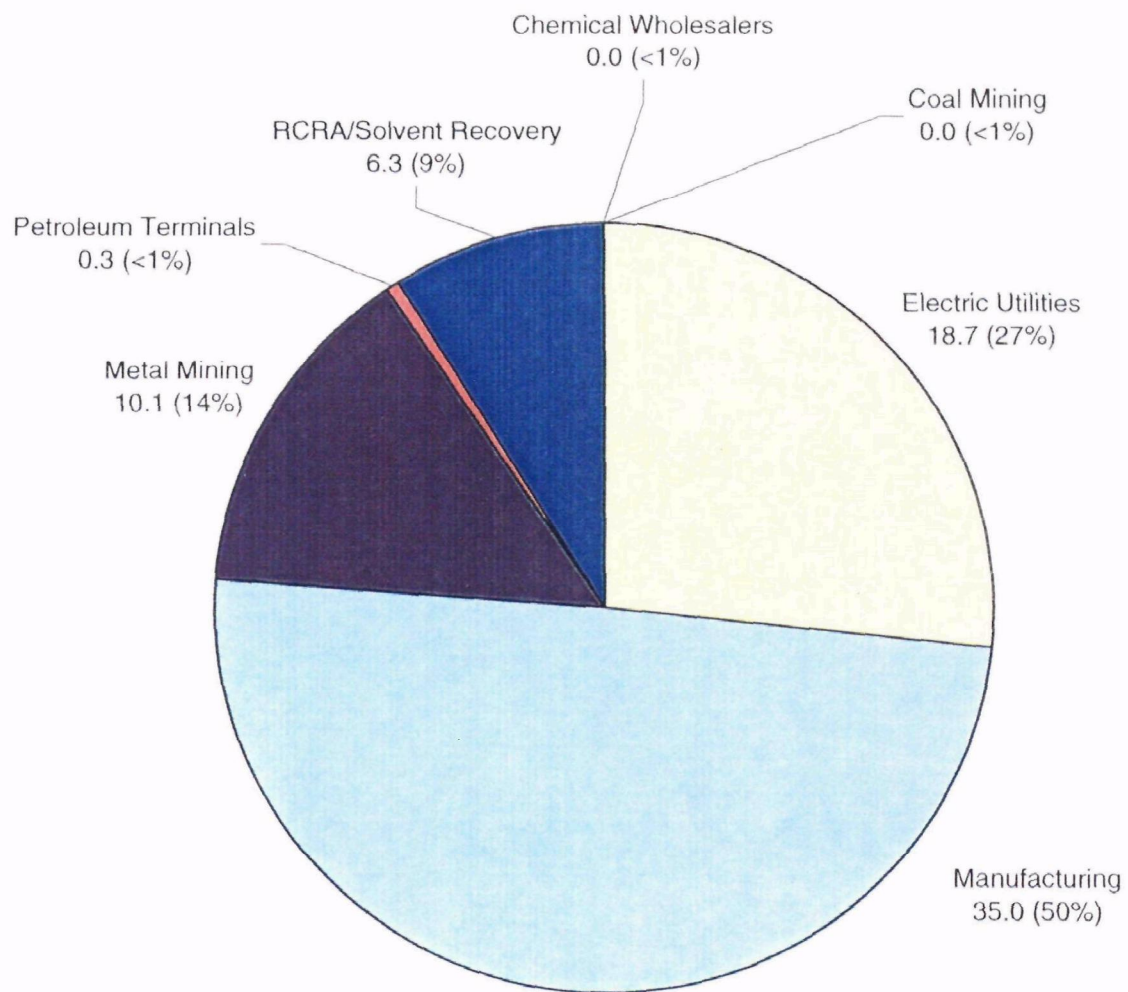
TRI Releases for New Mexico, 1998
(in millions of pounds)



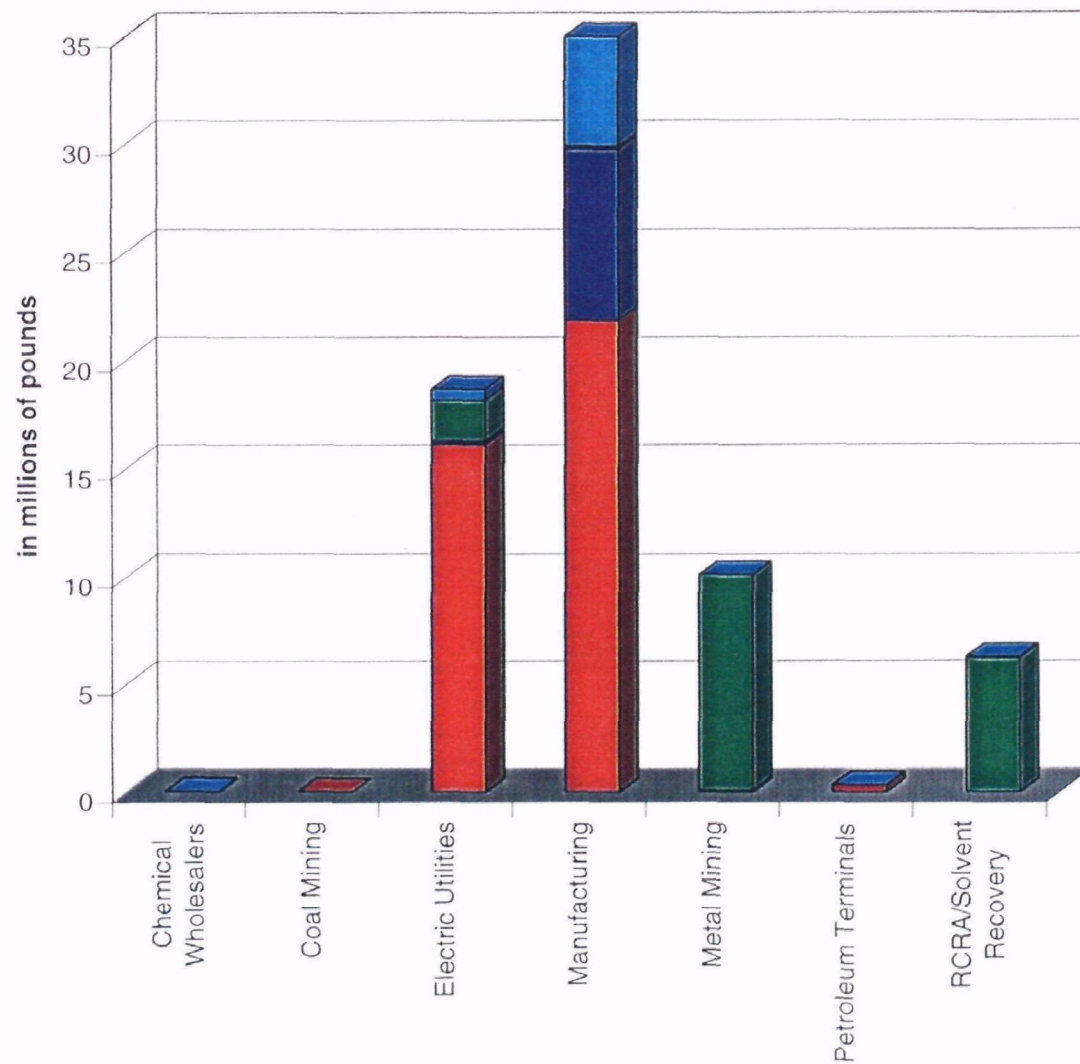
TRI Releases for New Mexico, 1998



TRI Releases for New York, 1998
(in millions of pounds)



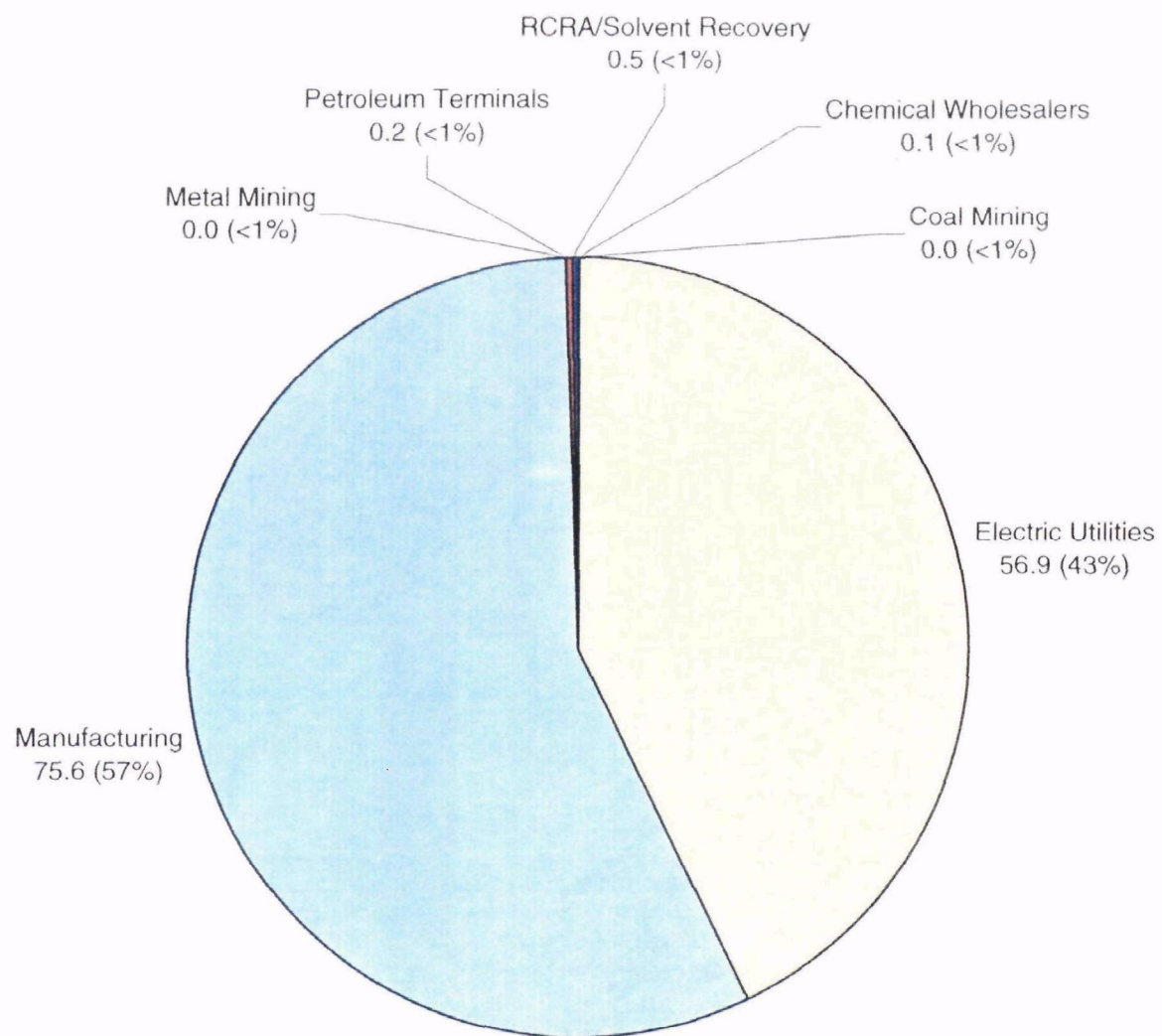
TRI Releases for New York, 1998



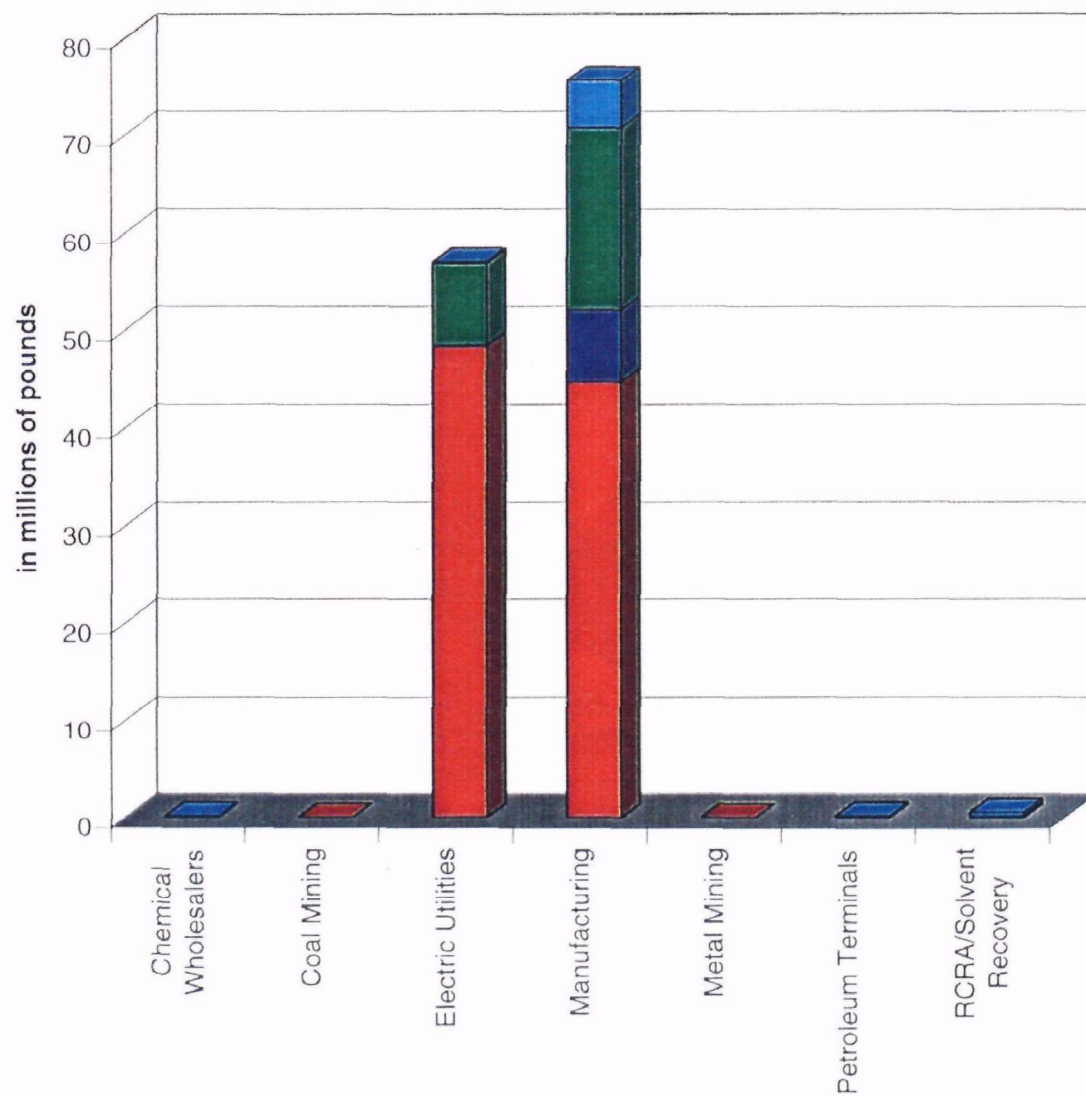
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for North Carolina, 1998
(in millions of pounds)



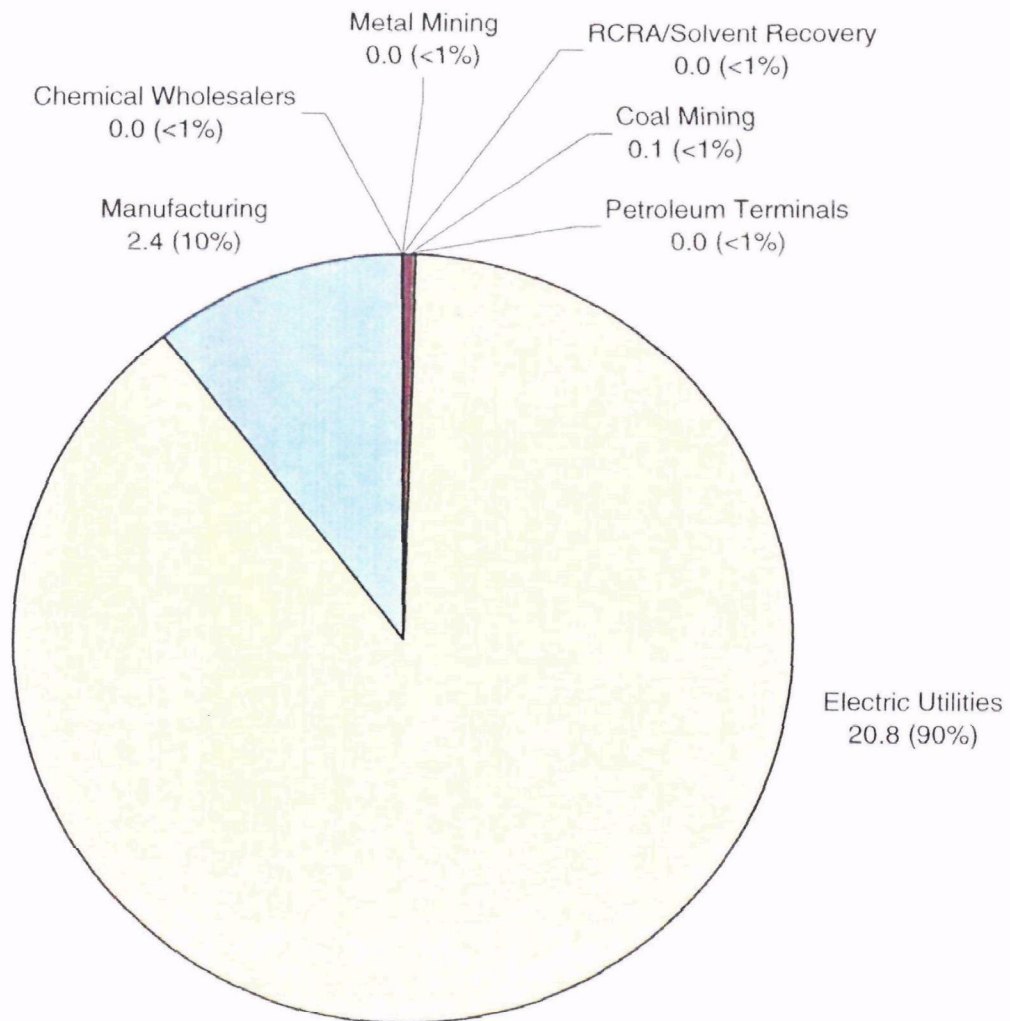
TRI Releases for North Carolina, 1998



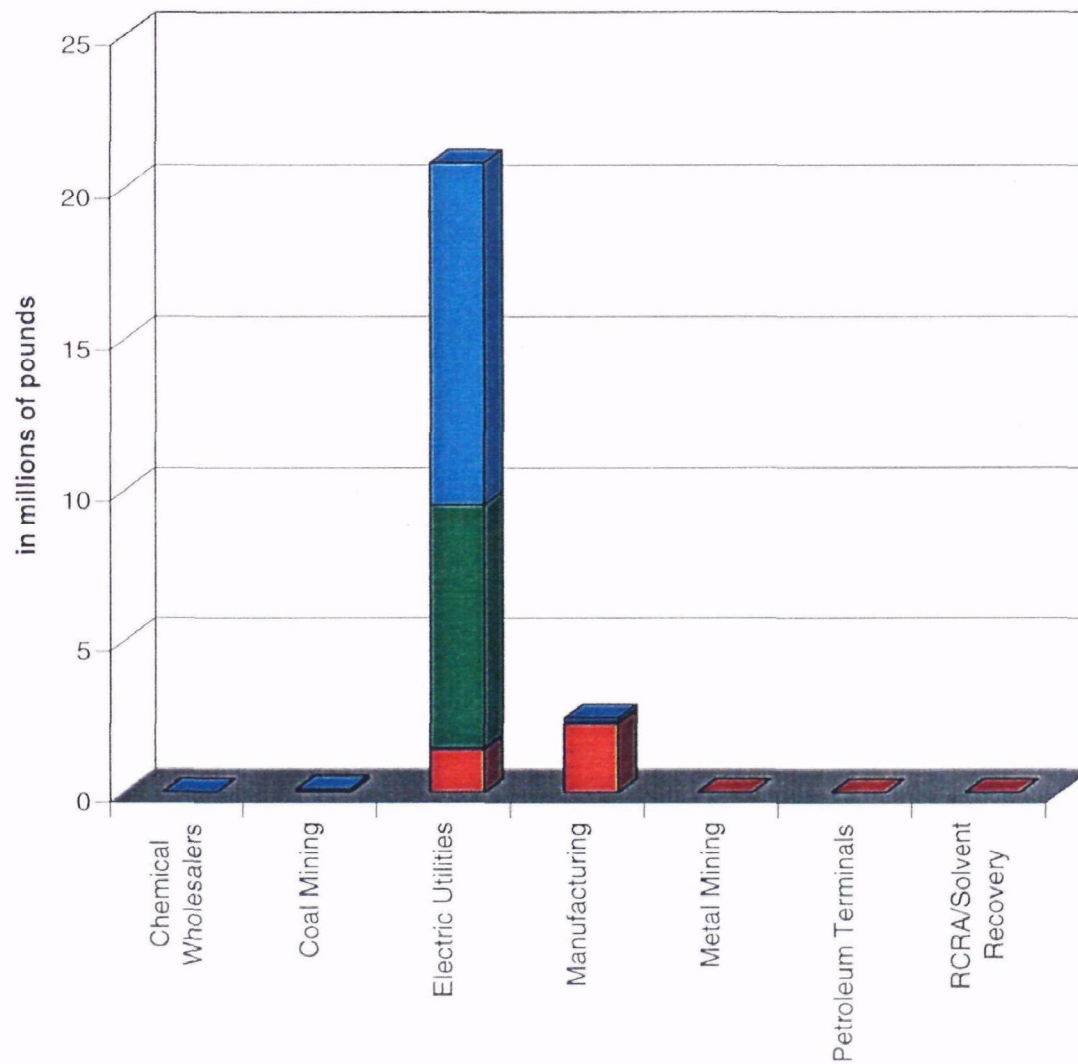
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for North Dakota, 1998
(in millions of pounds)



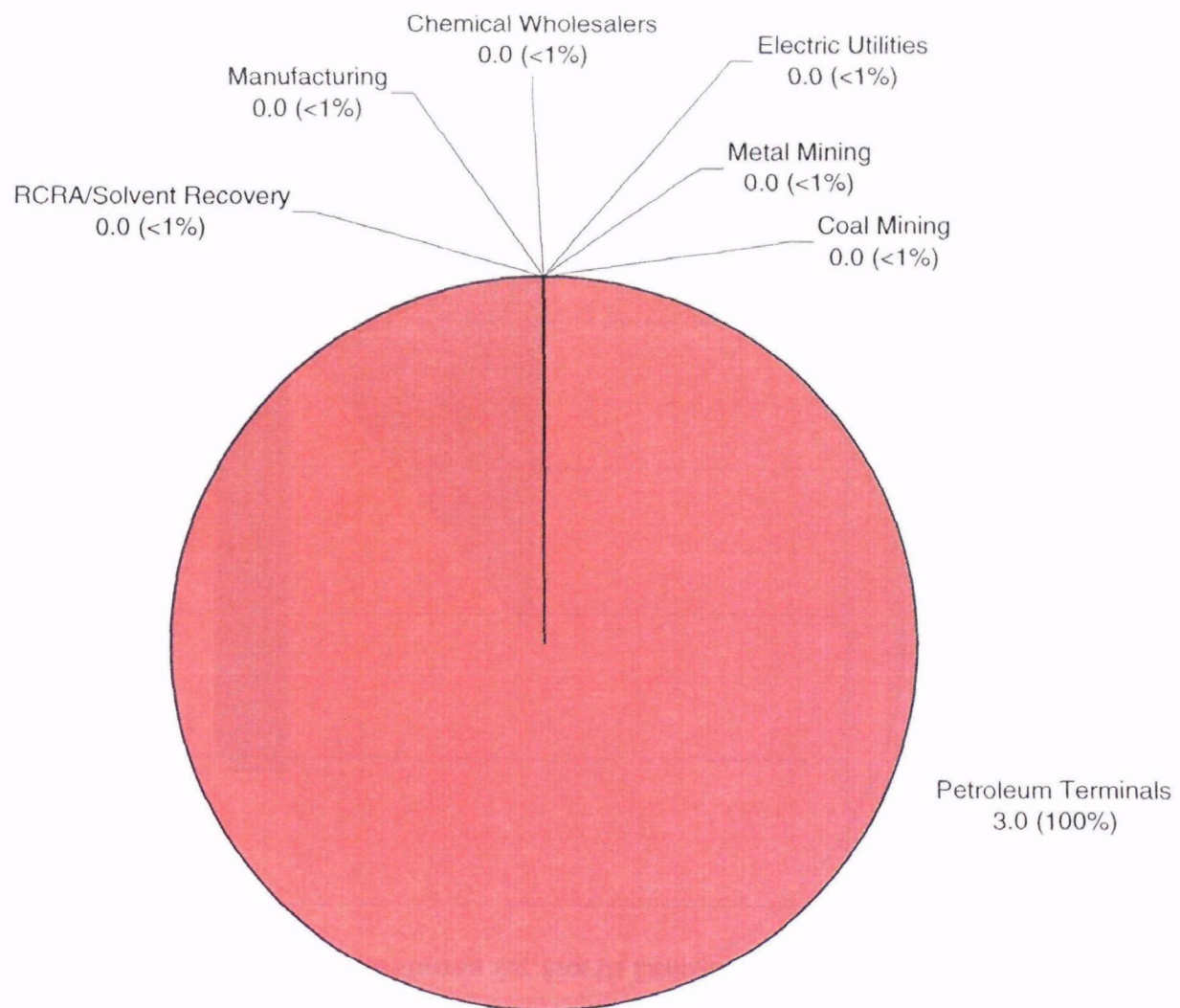
TRI Releases for North Dakota, 1998



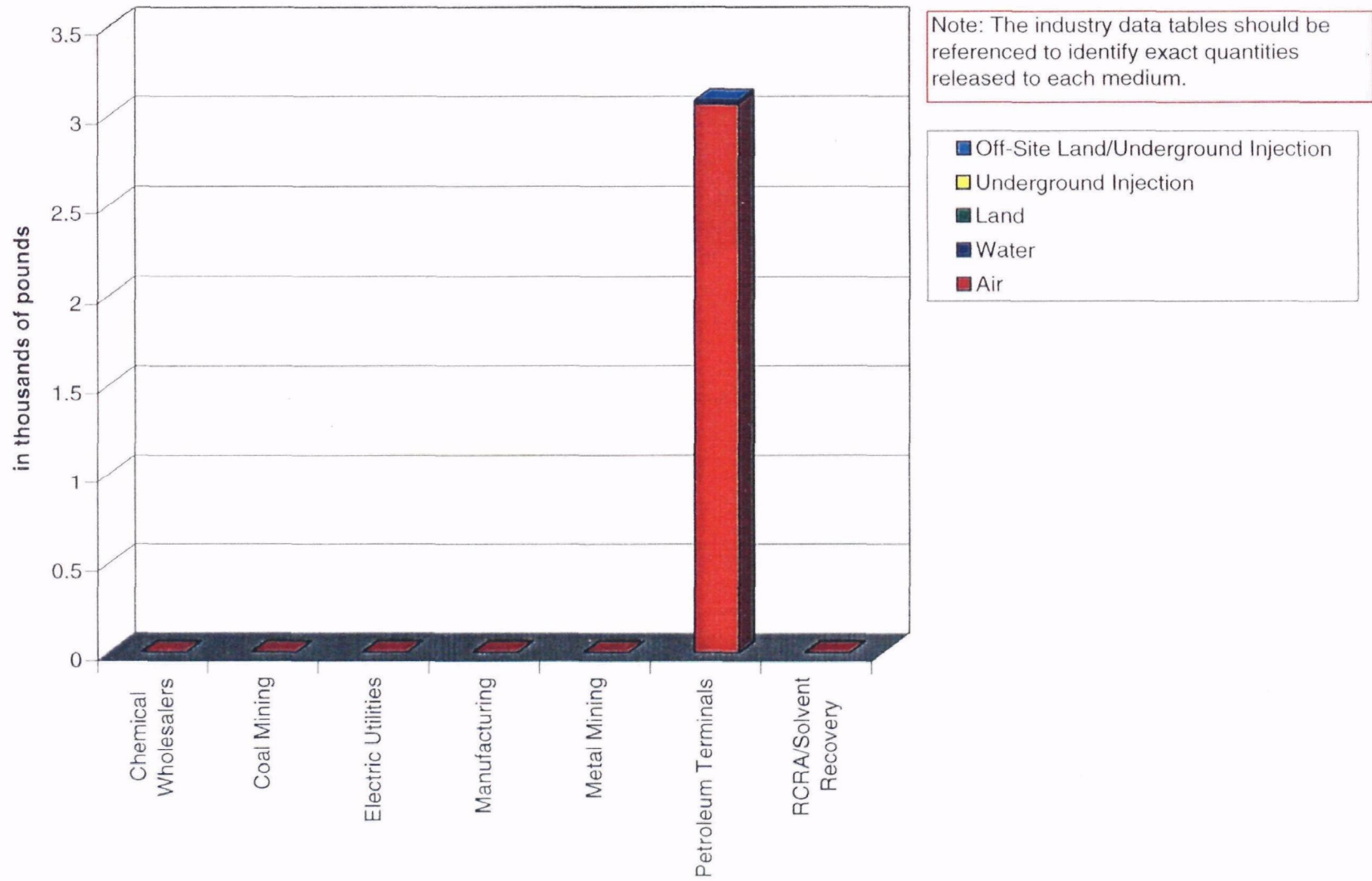
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

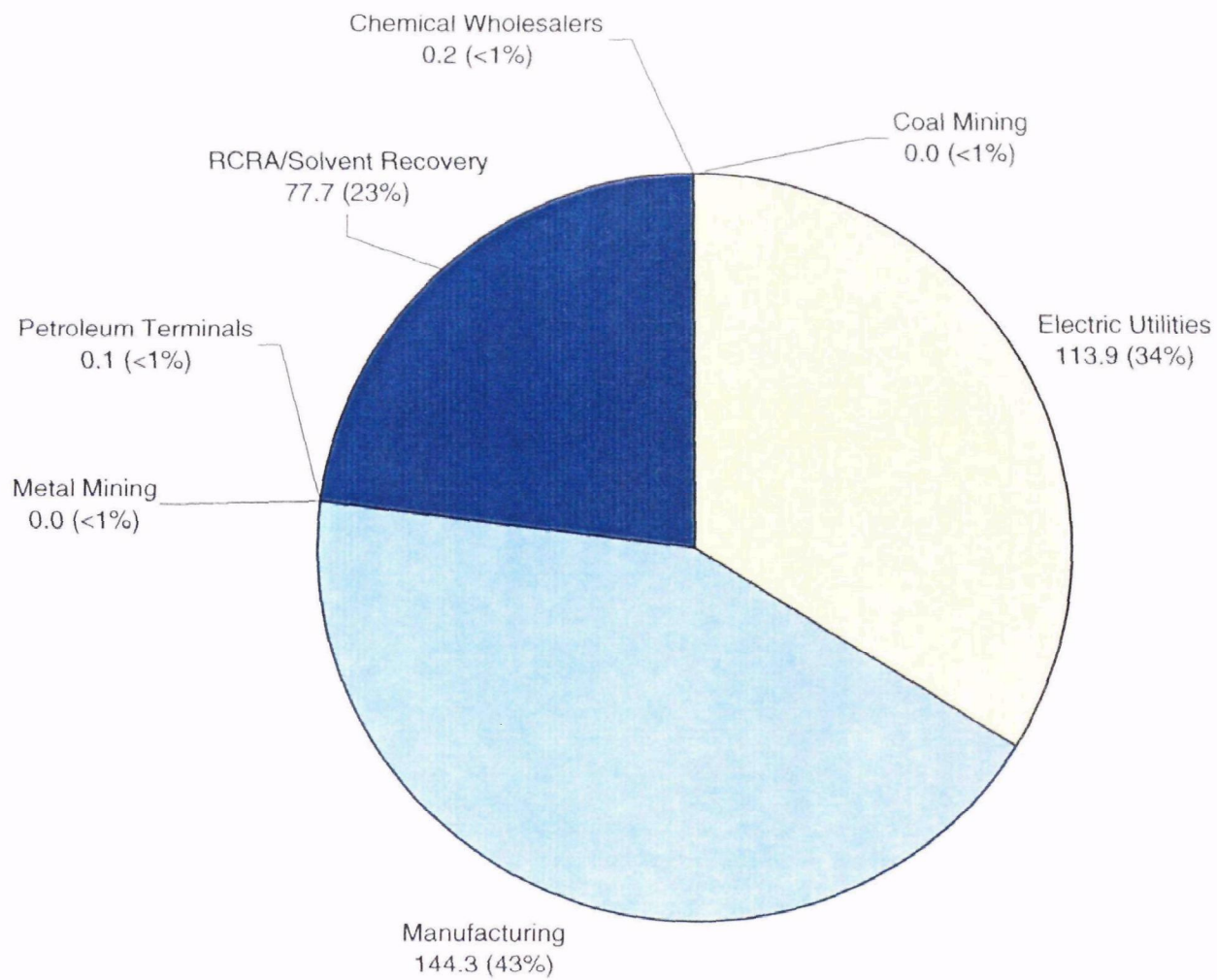
TRI Releases for N Marianas, 1998
(in thousands of pounds)



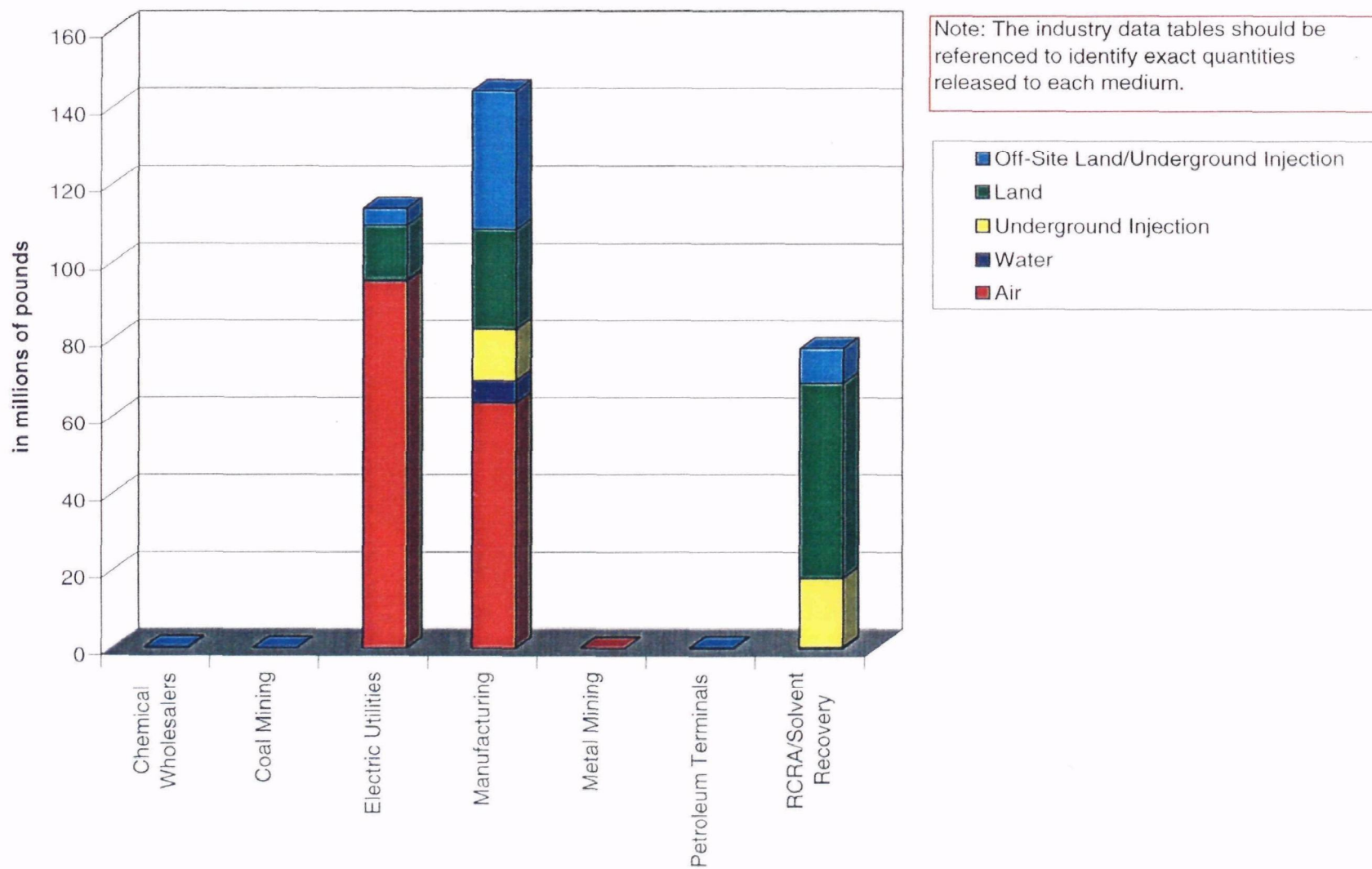
TRI Releases for N Marianas, 1998



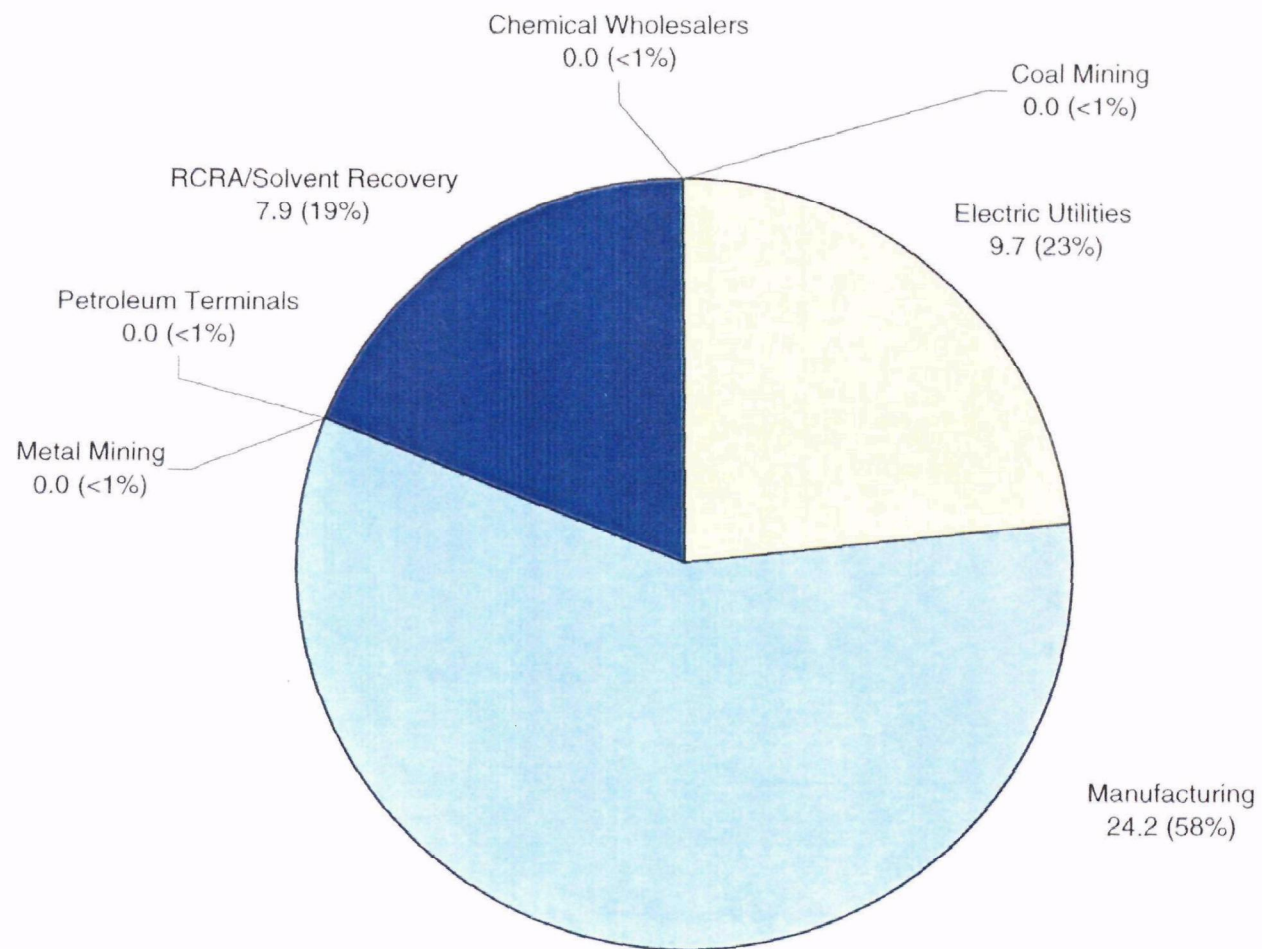
TRI Releases for Ohio, 1998
(in millions of pounds)



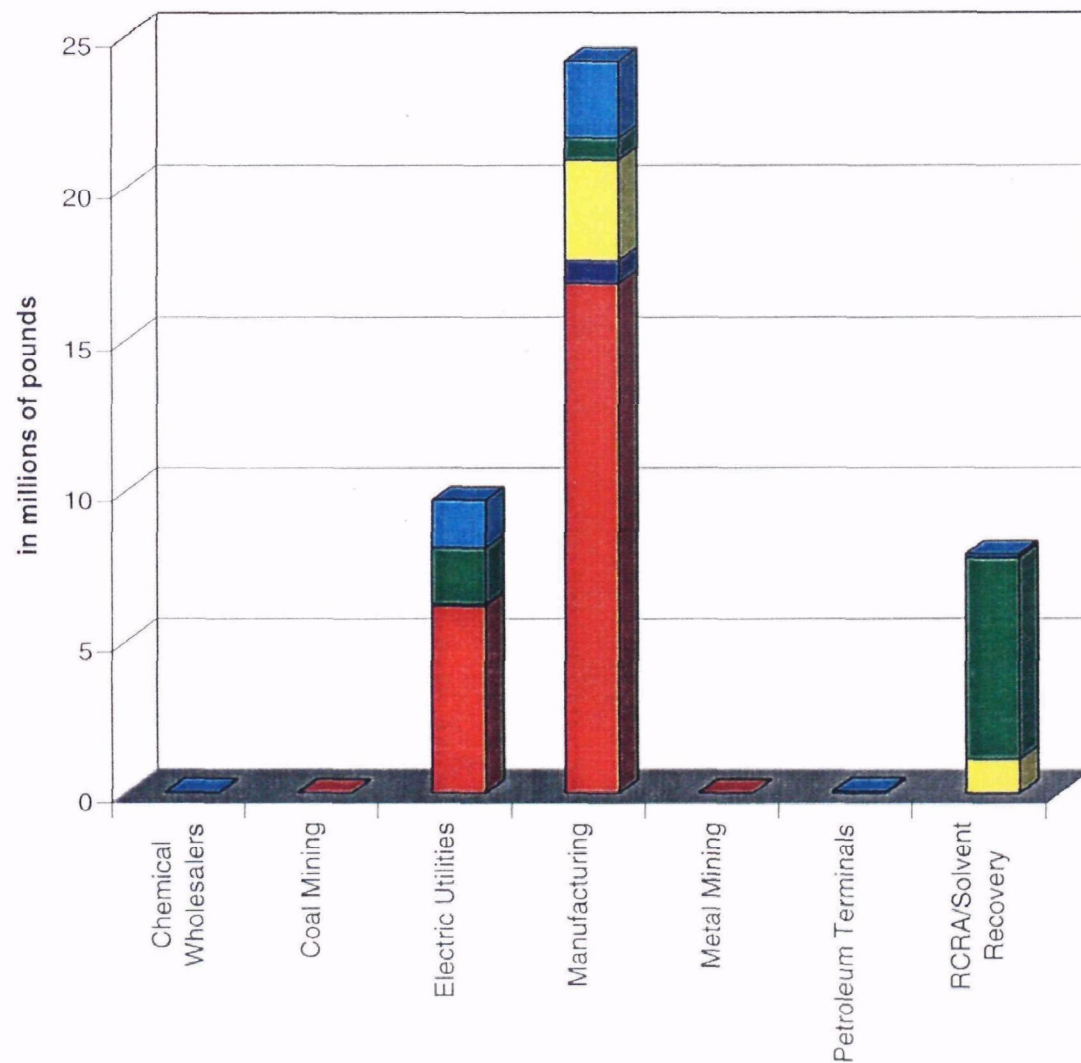
TRI Releases for Ohio, 1998



TRI Releases for Oklahoma, 1998
(in millions of pounds)



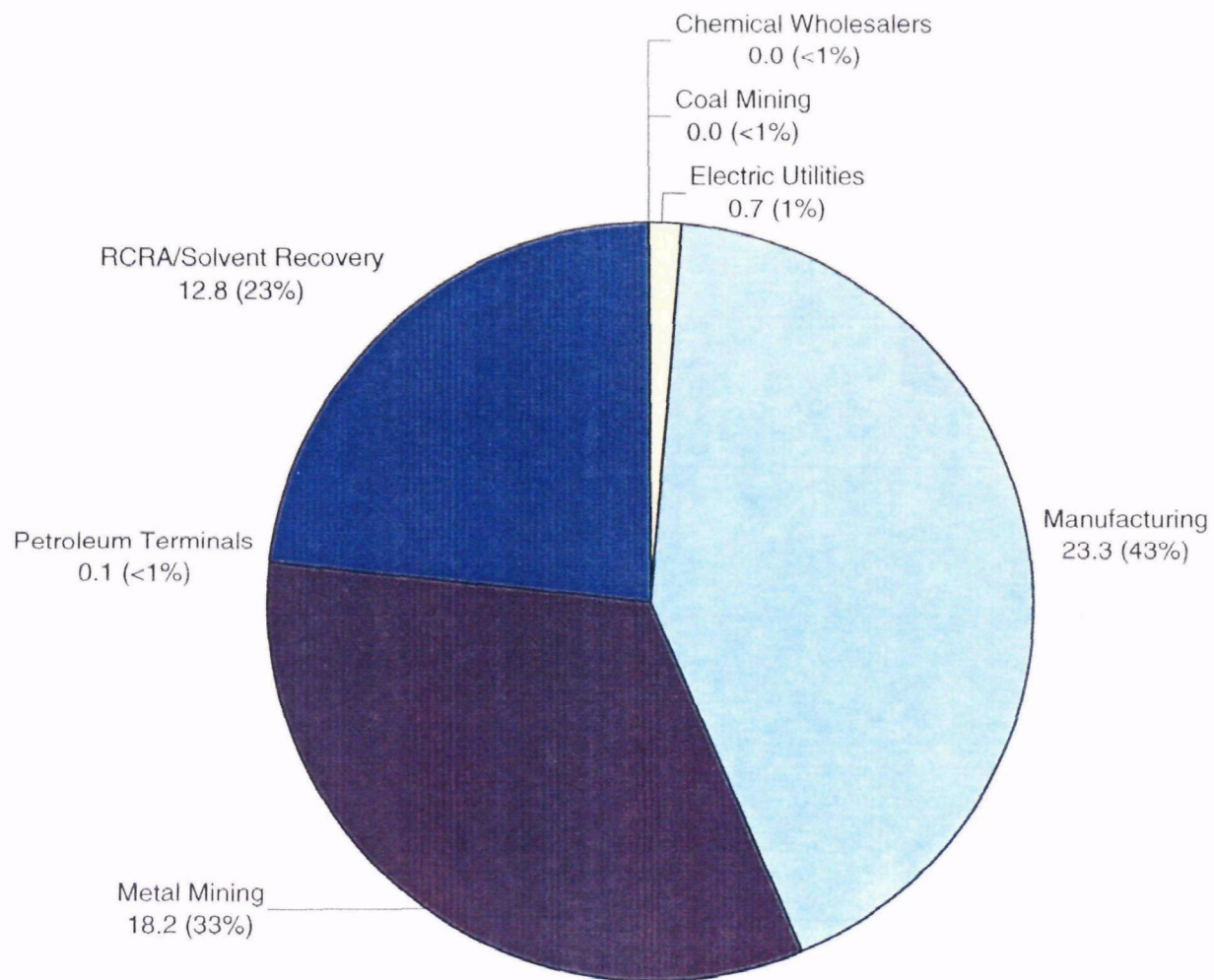
TRI Releases for Oklahoma, 1998



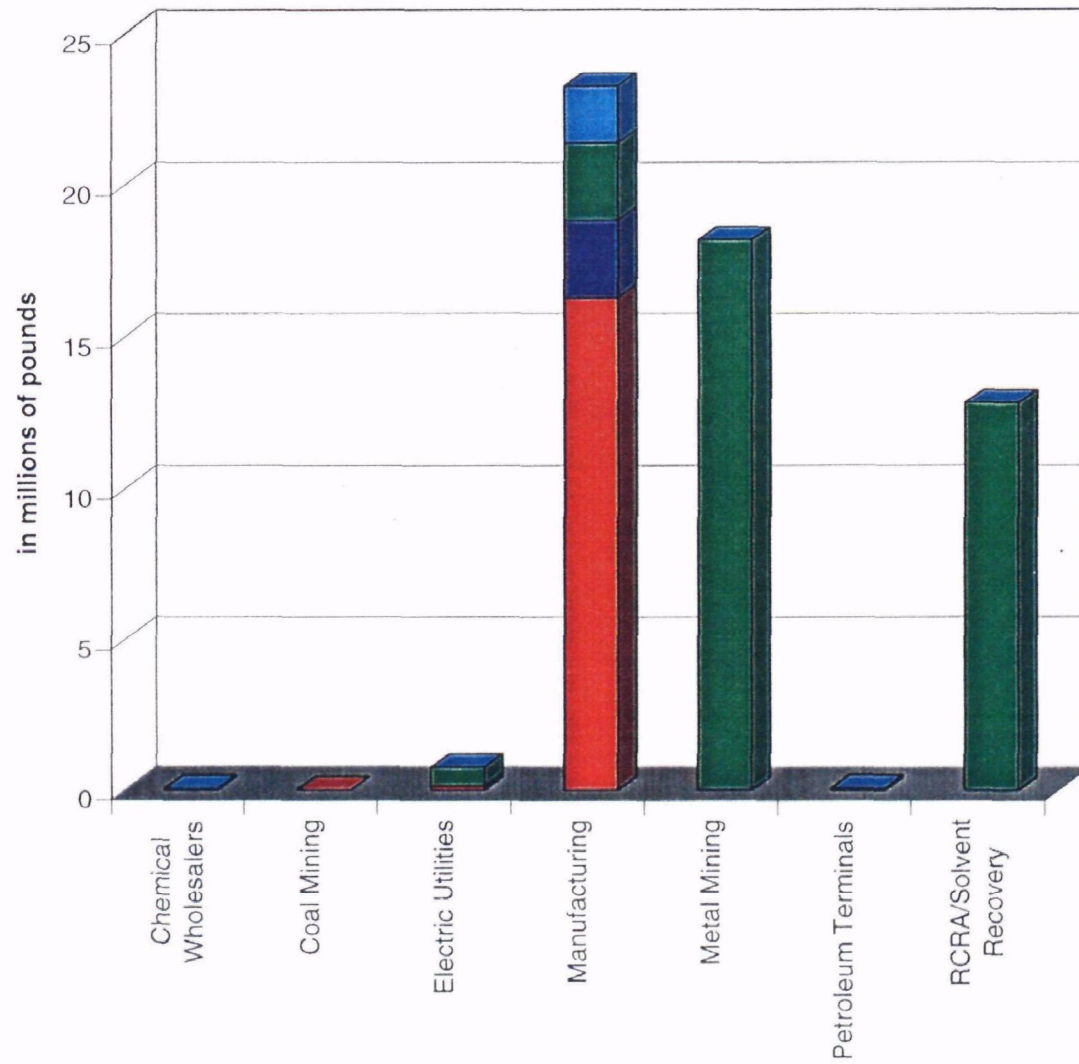
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Oregon, 1998
(in millions of pounds)



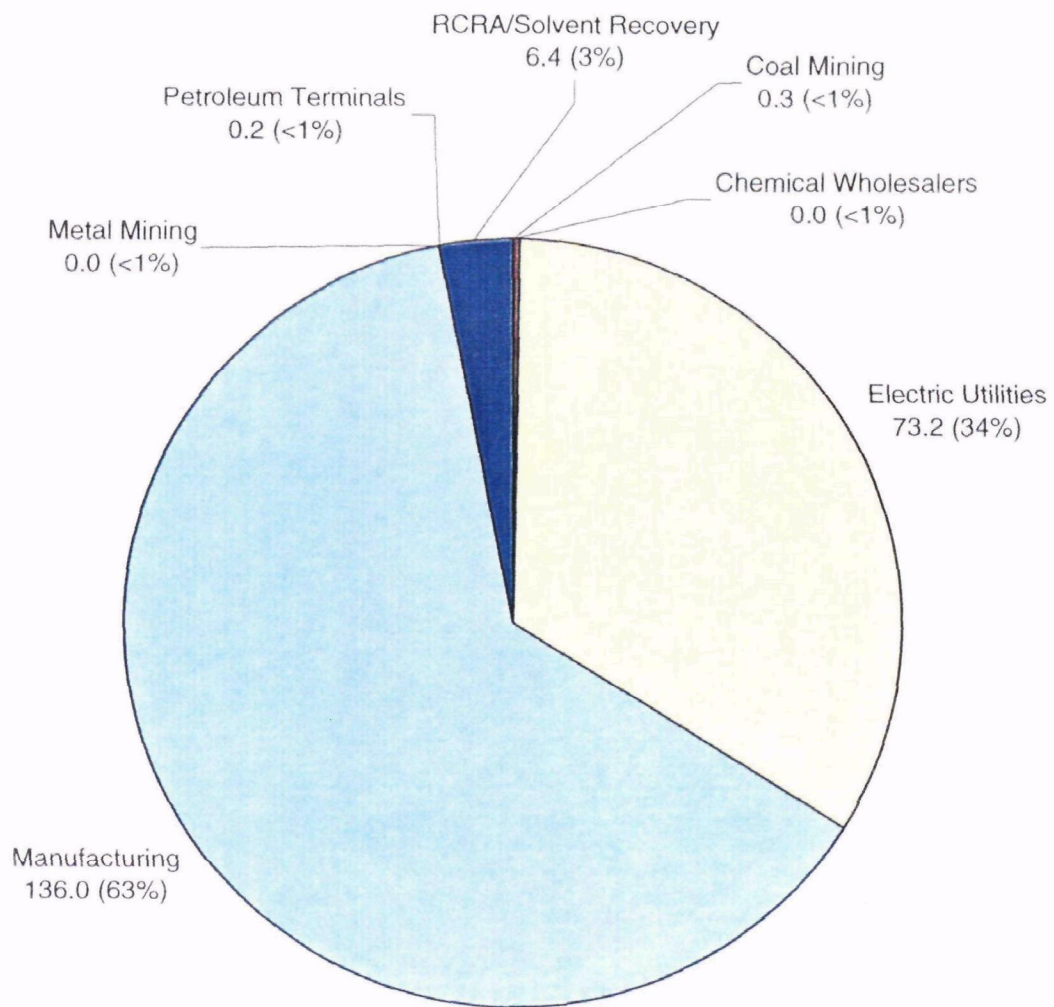
TRI Releases for Oregon, 1998



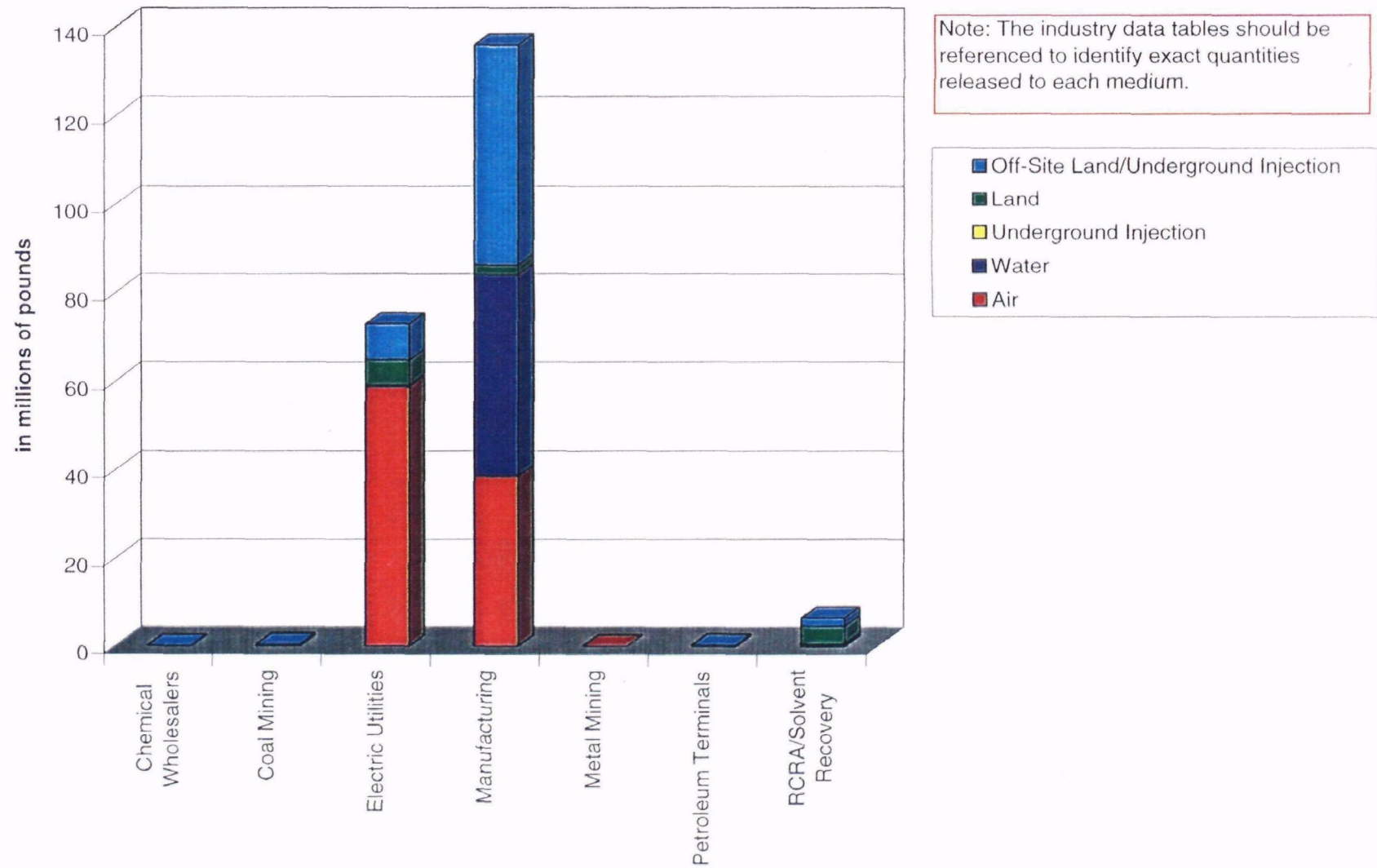
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

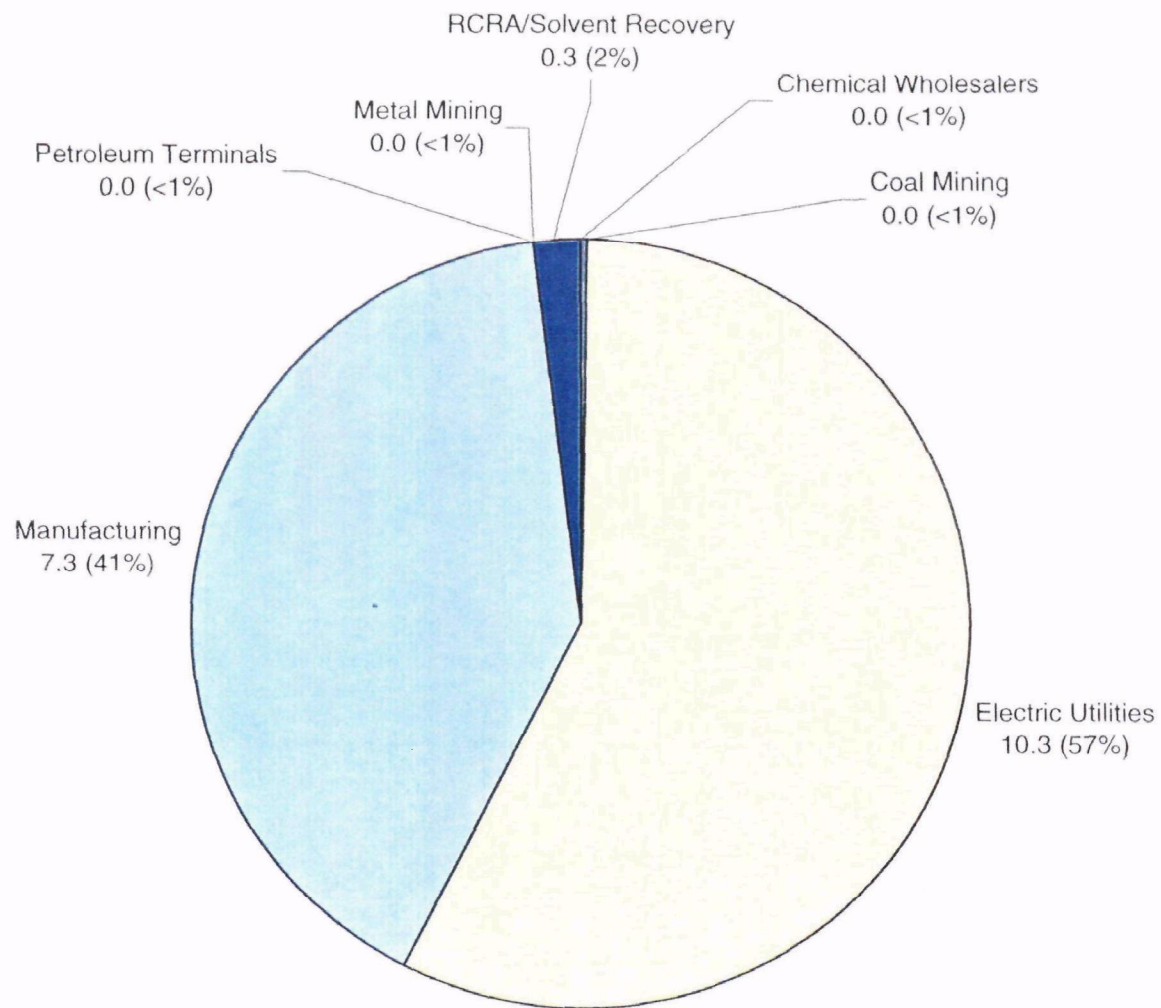
TRI Releases for Pennsylvania, 1998
(in millions of pounds)



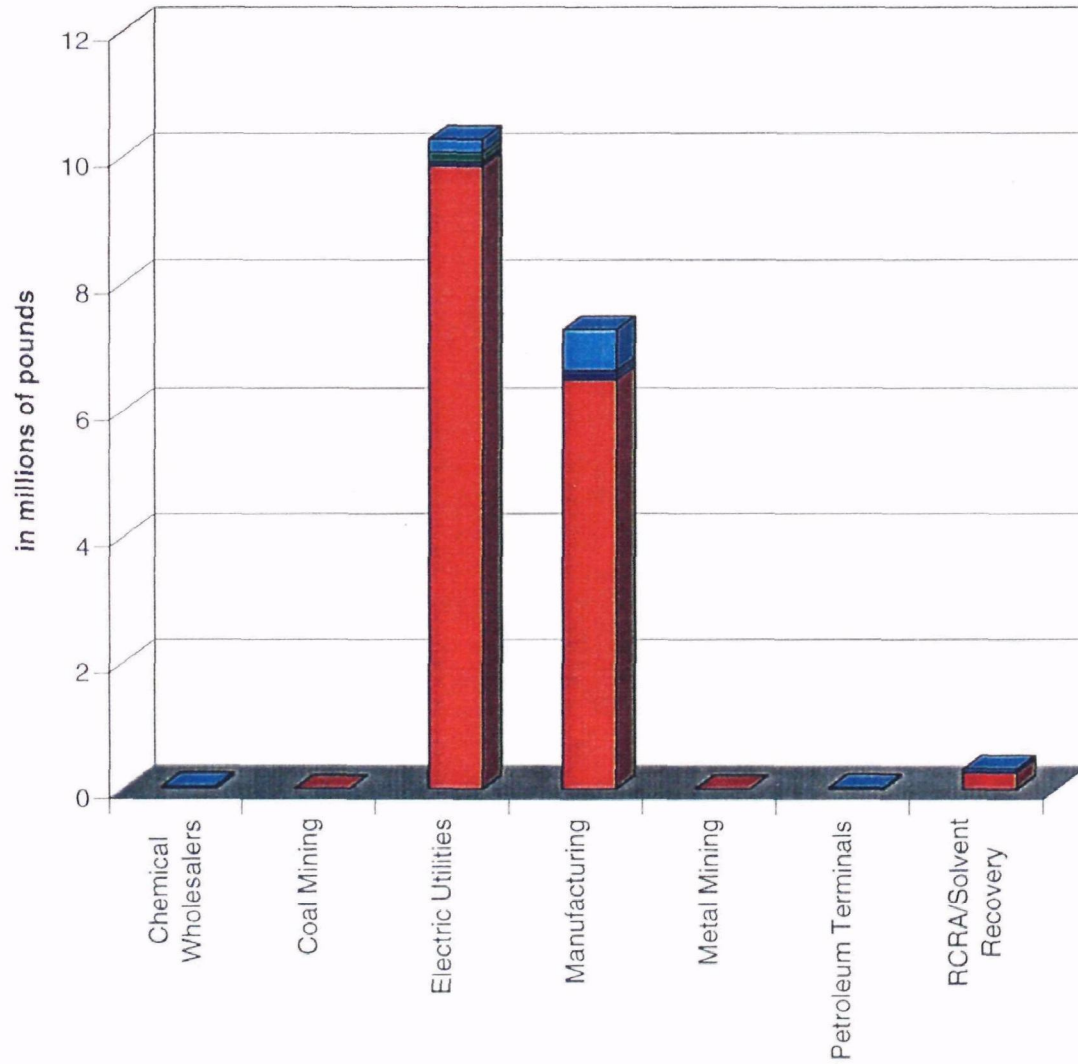
TRI Releases for Pennsylvania, 1998



TRI Releases for Puerto Rico, 1998
(in millions of pounds)



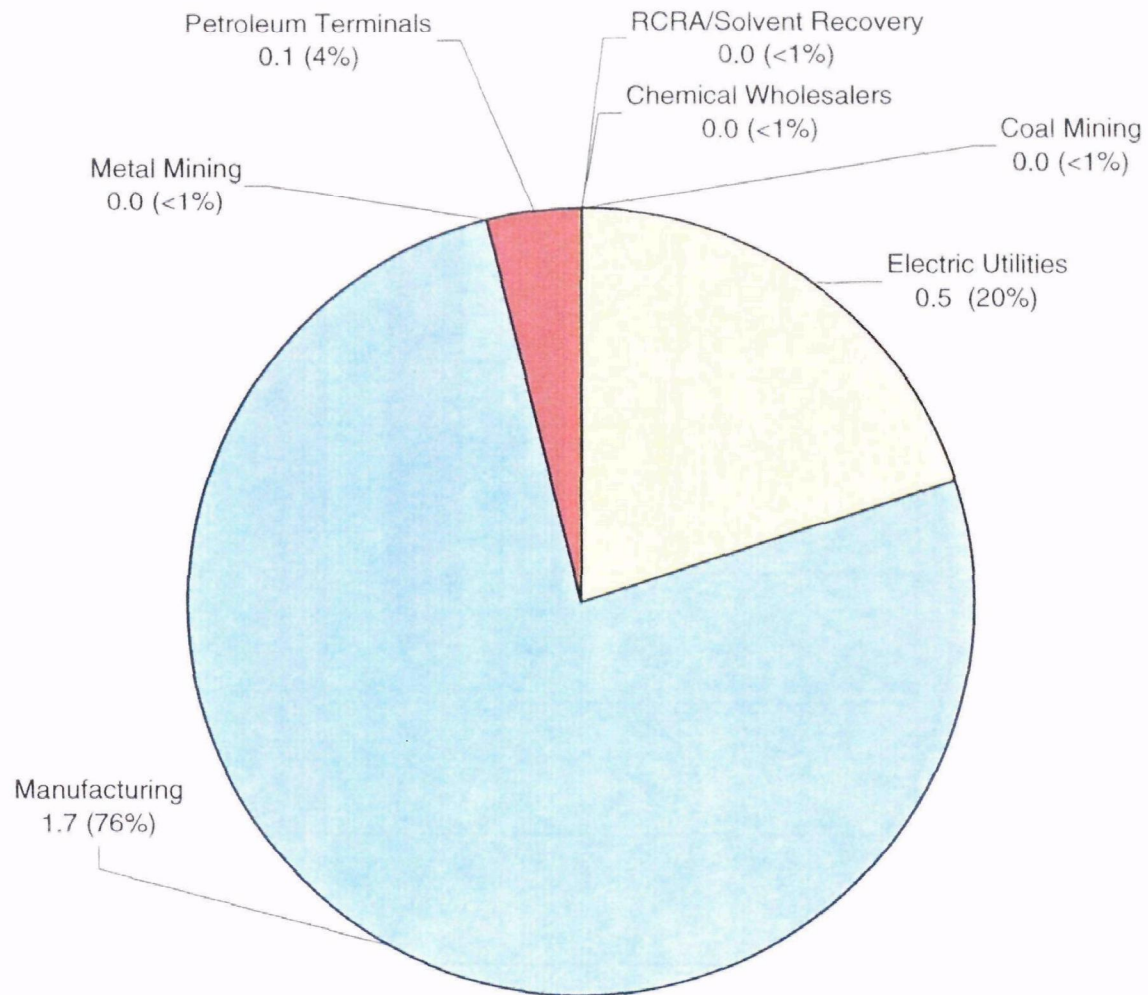
TRI Releases for Puerto Rico, 1998



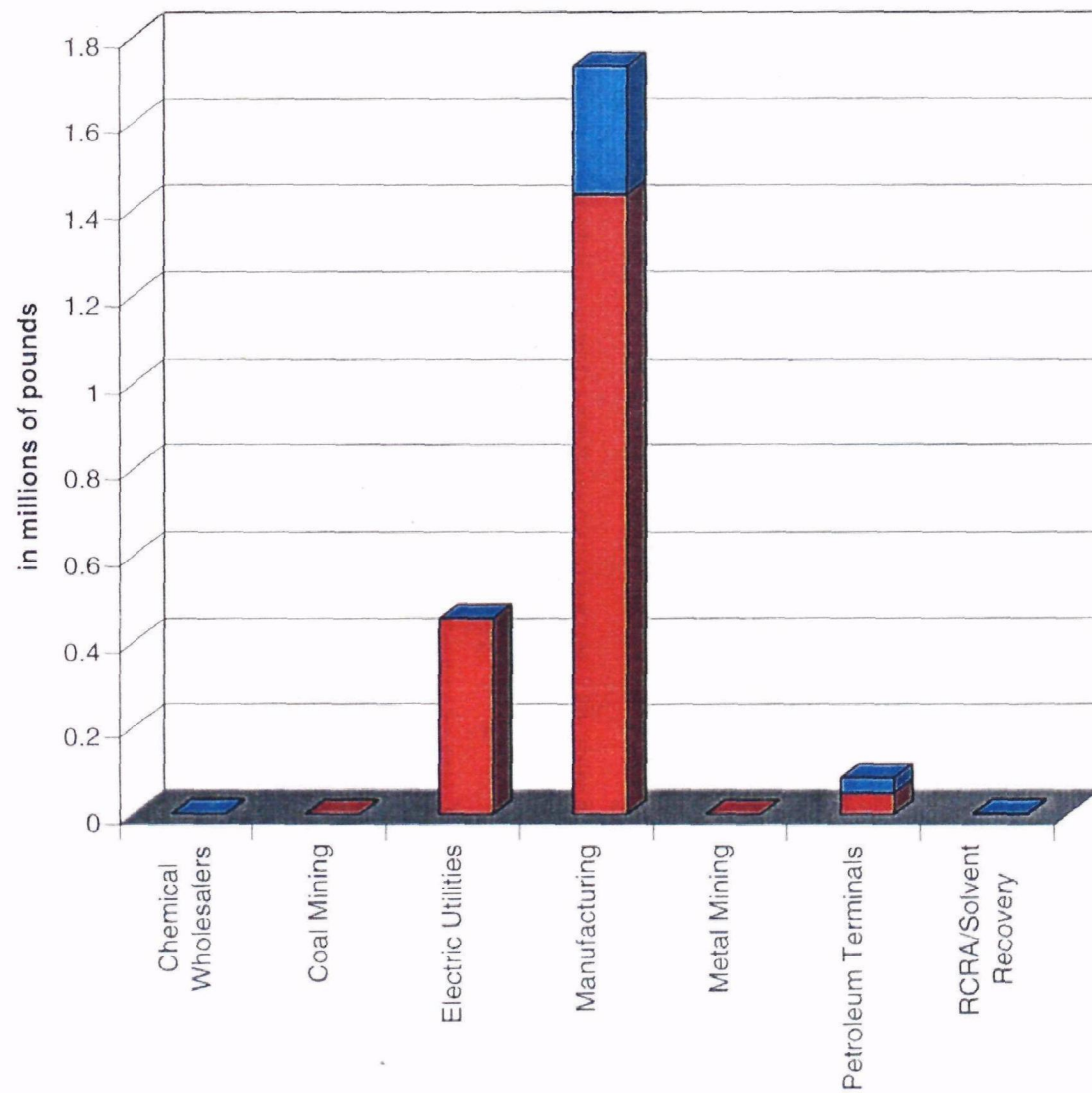
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Rhode Island, 1998
(in millions of pounds)



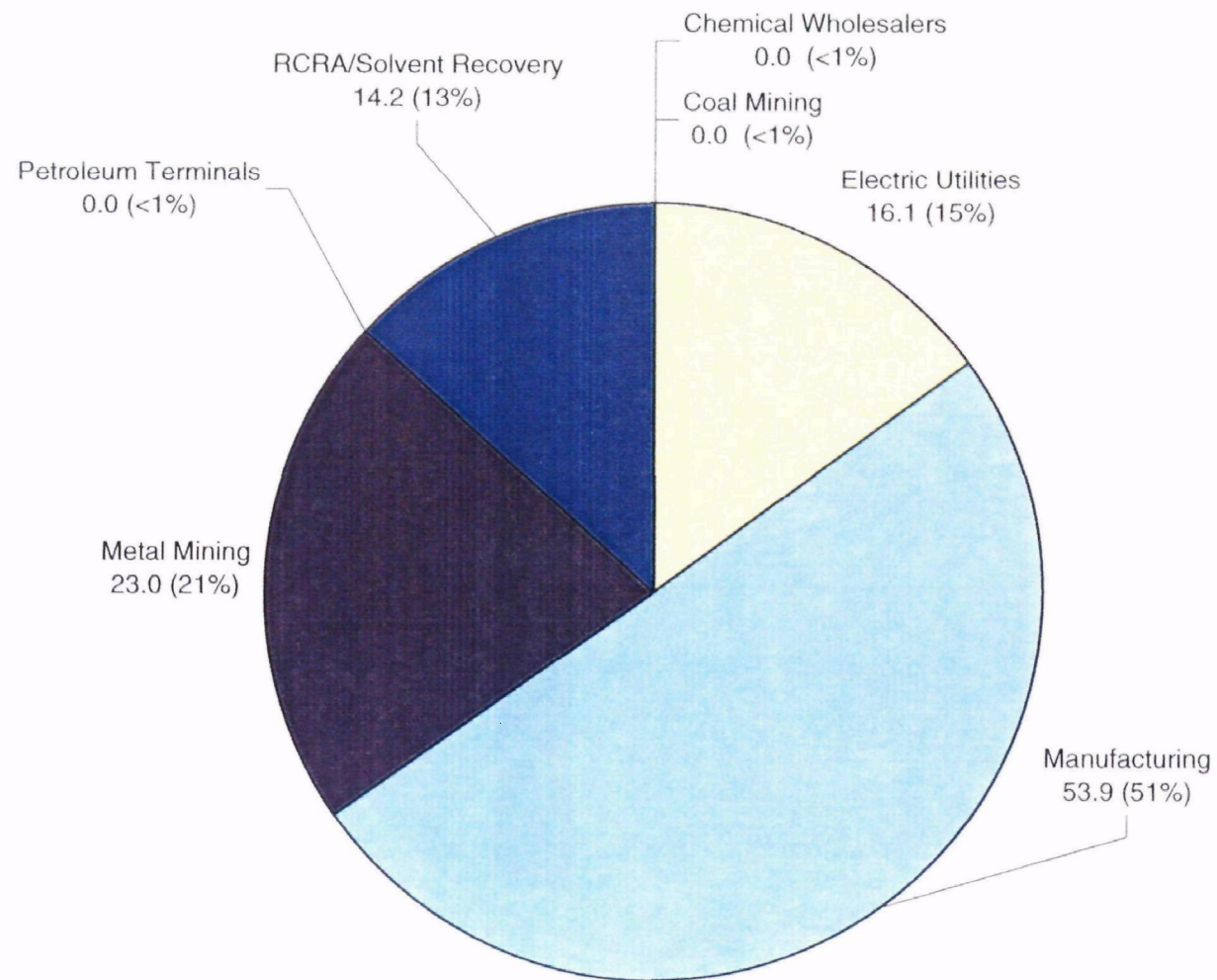
TRI Releases for Rhode Island, 1998



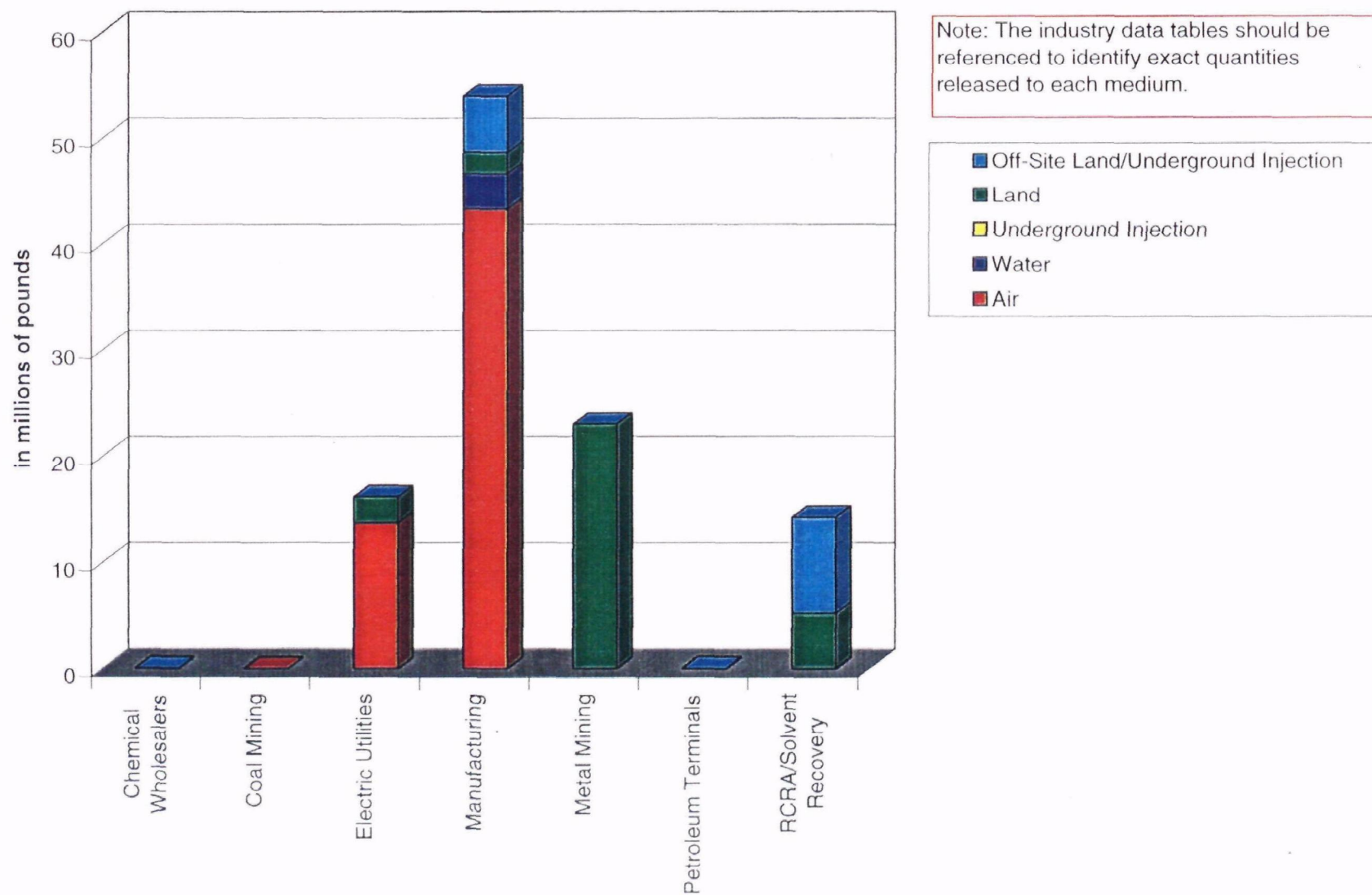
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

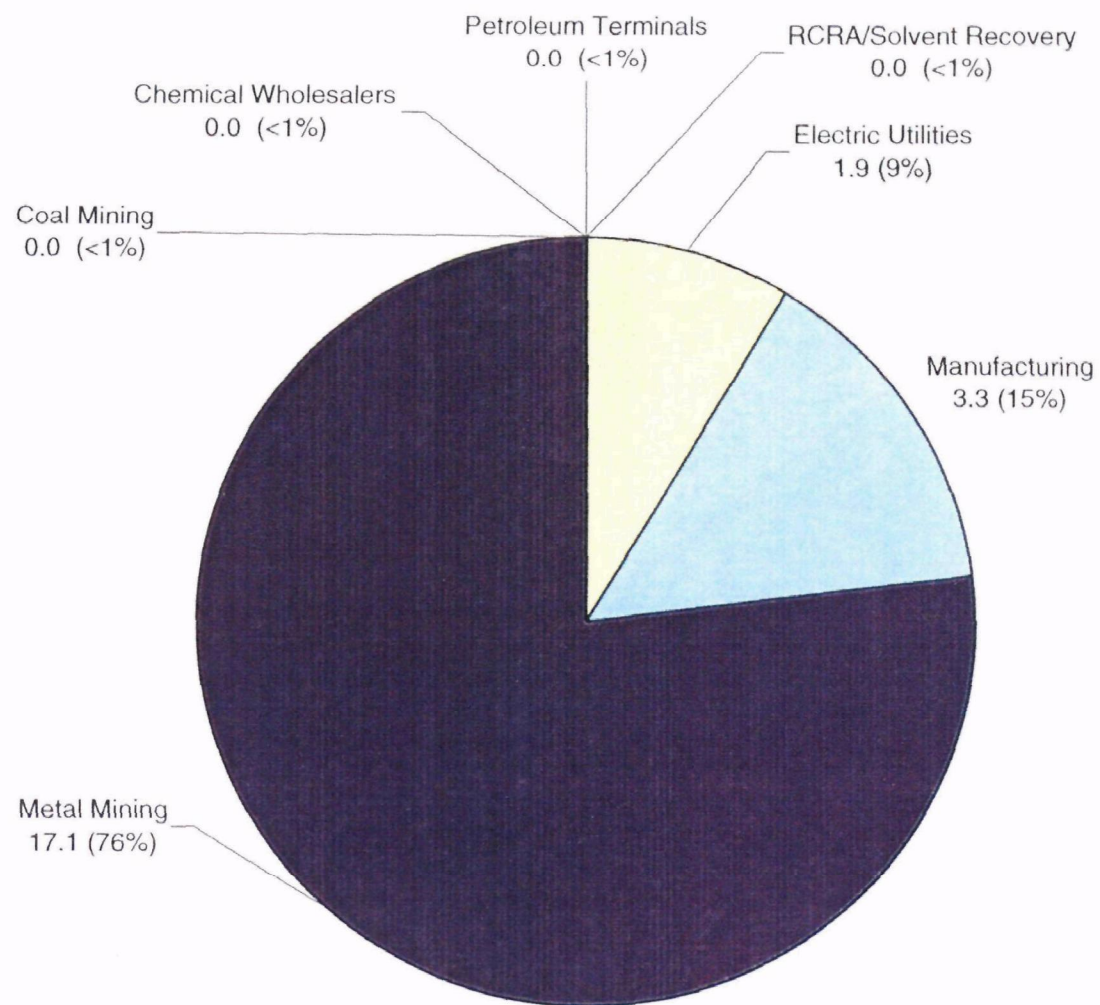
TRI Releases for South Carolina, 1998
(in millions of pounds)



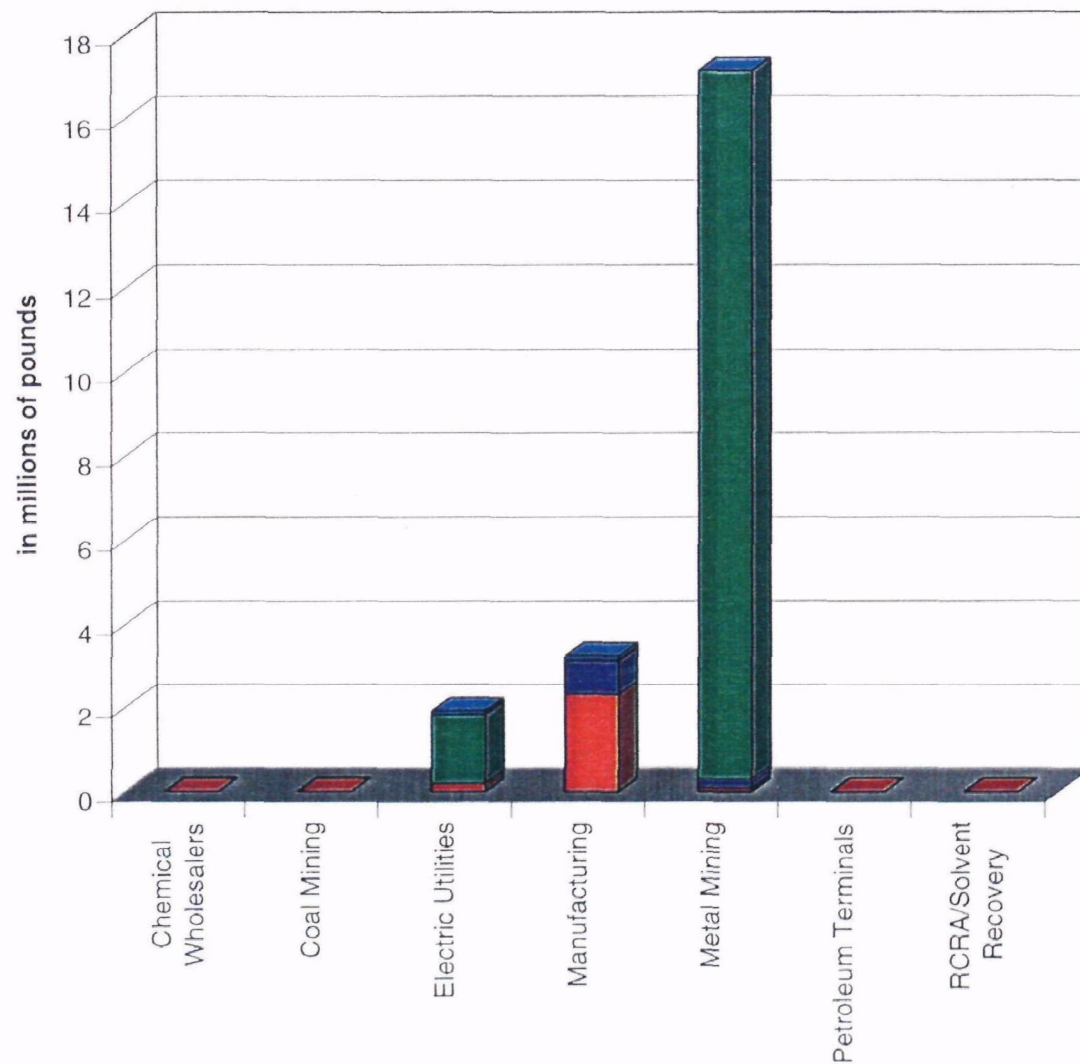
TRI Releases for South Carolina, 1998



TRI Releases for South Dakota, 1998
(in millions of pounds)



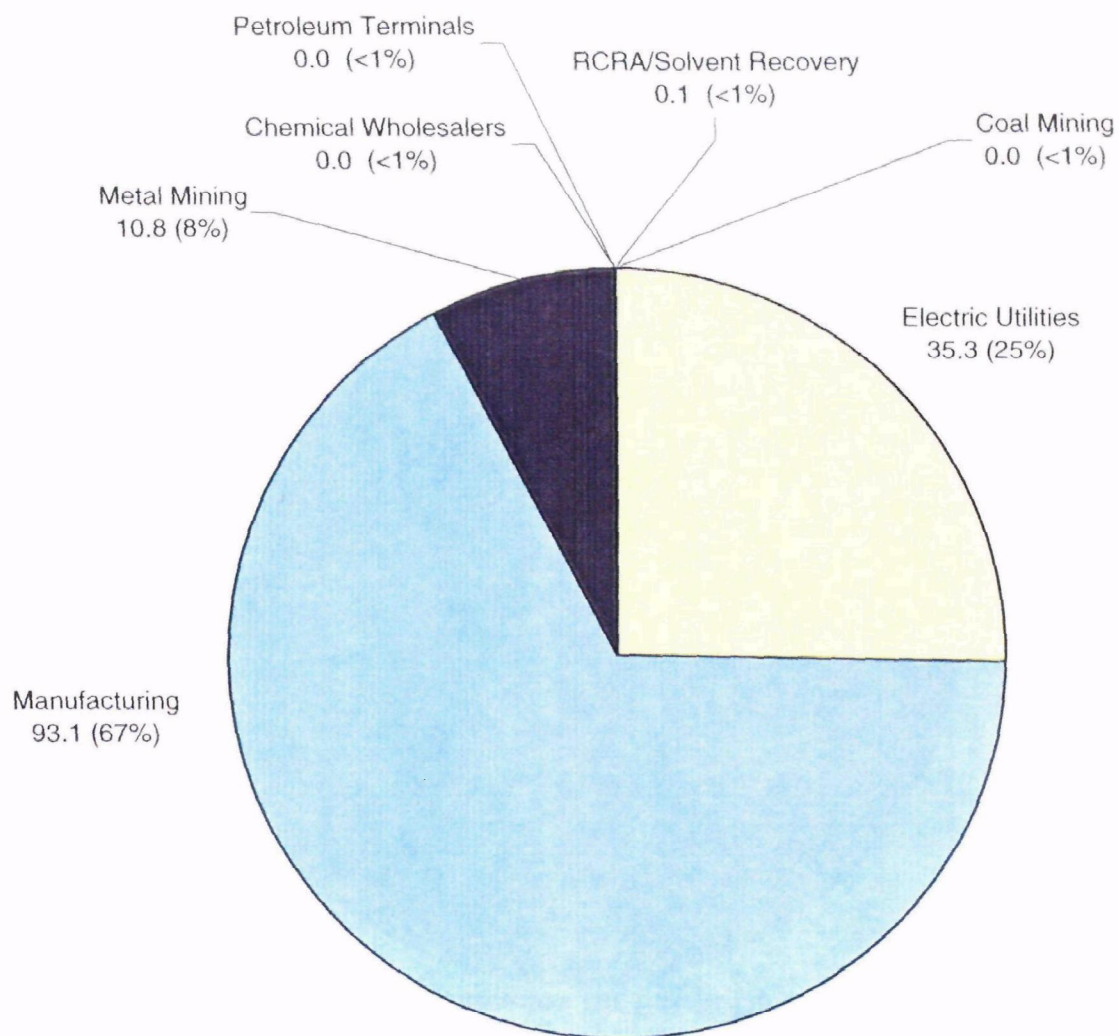
TRI Releases for South Dakota, 1998



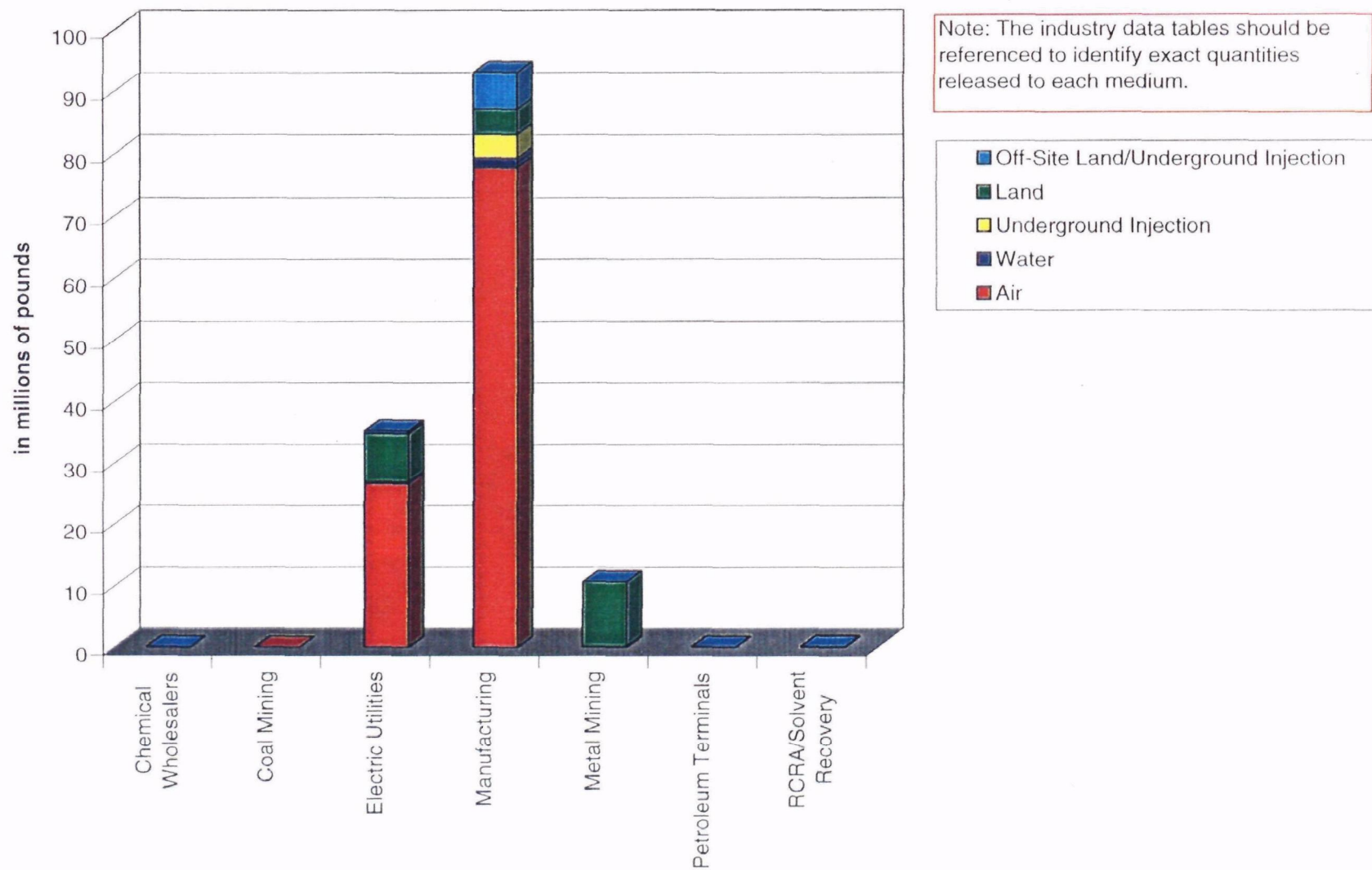
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

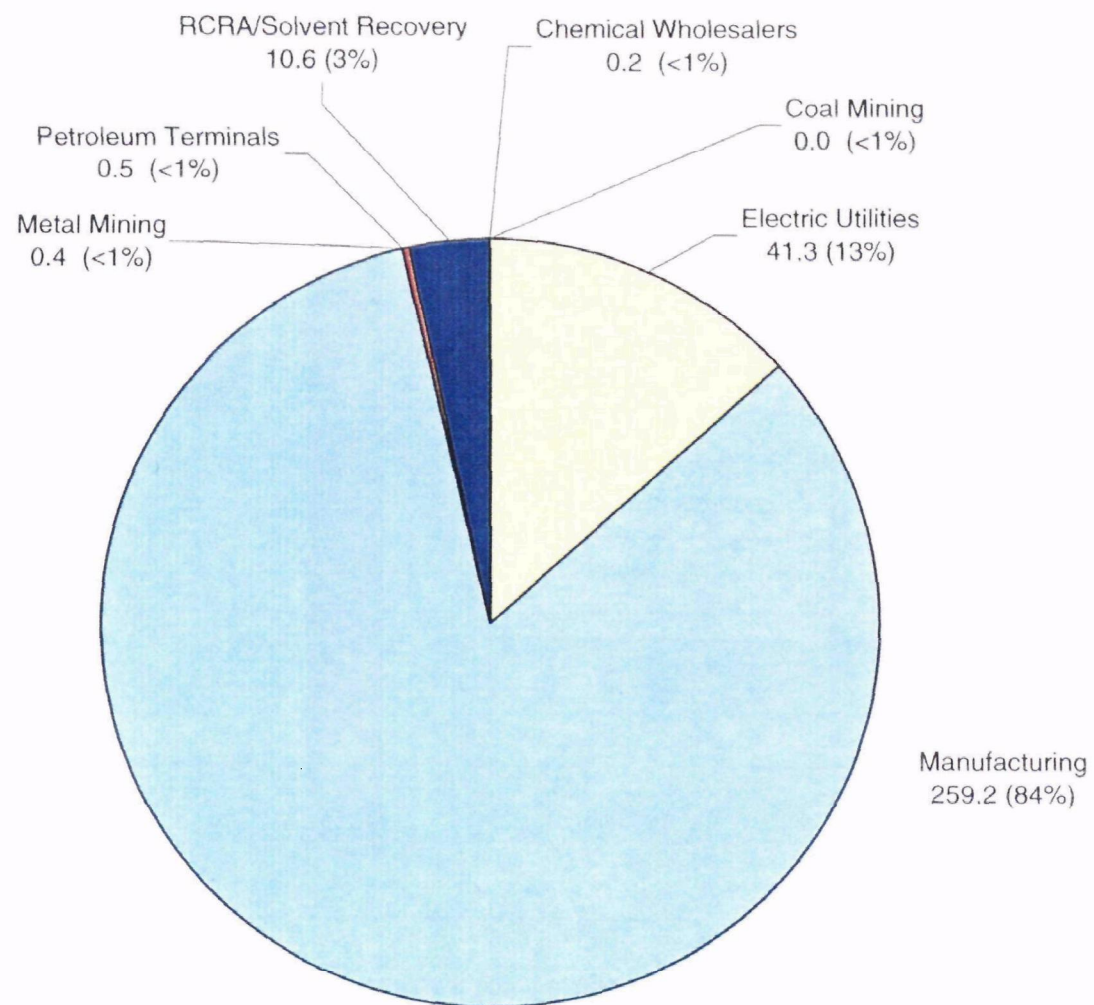
TRI Releases for Tennessee, 1998
(in millions of pounds)



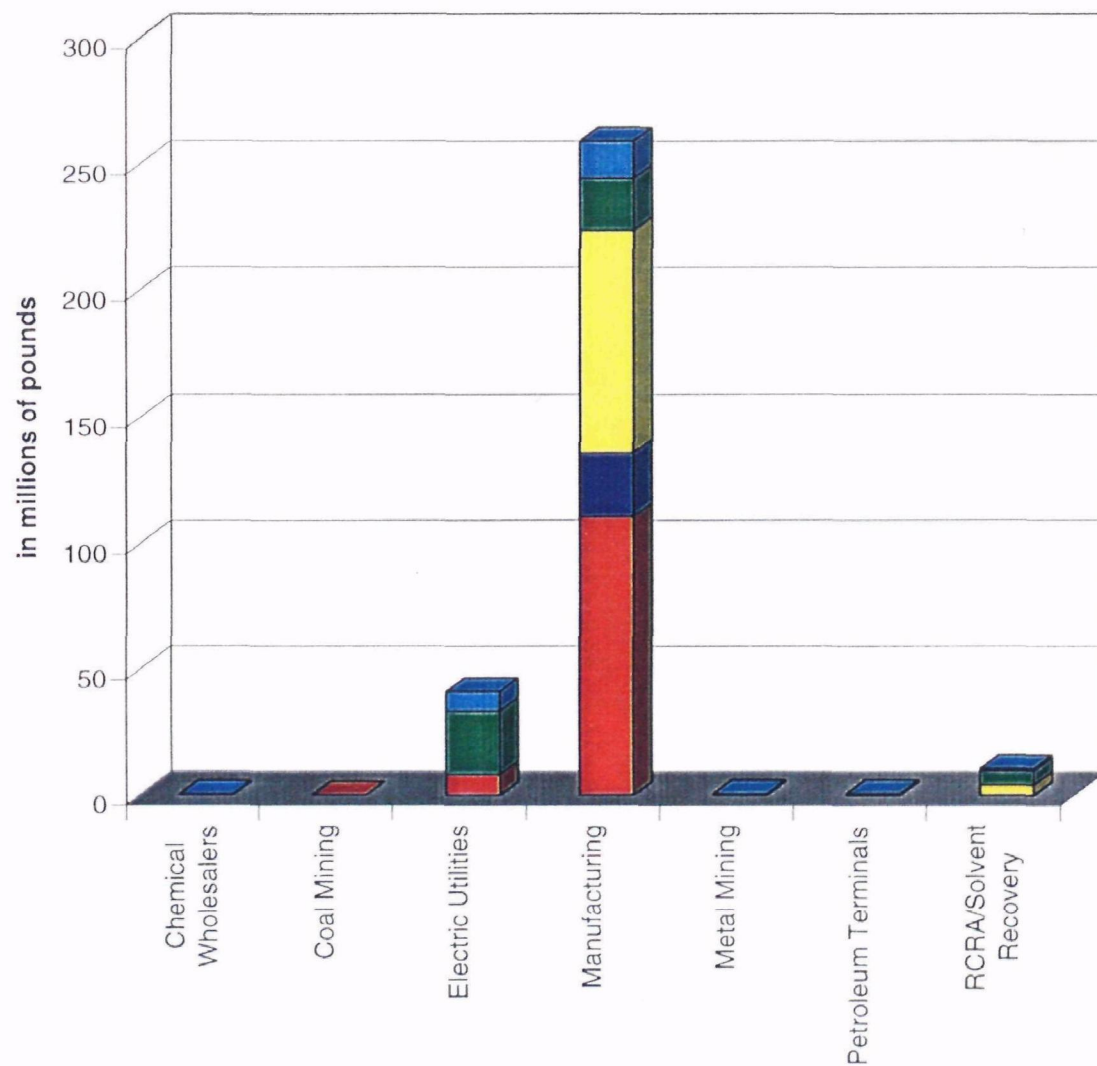
TRI Releases for Tennessee, 1998



TRI Releases for Texas, 1998
(in millions of pounds)



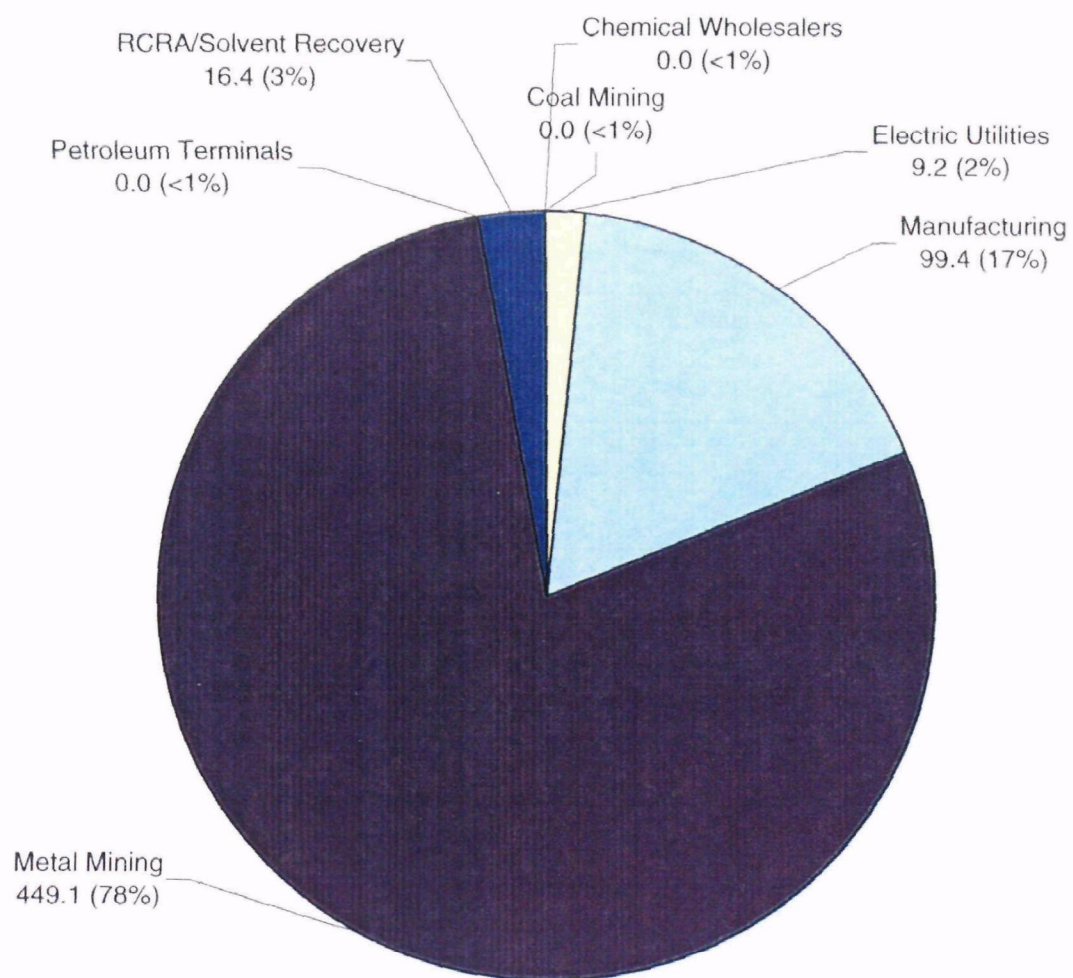
TRI Releases for Texas, 1998



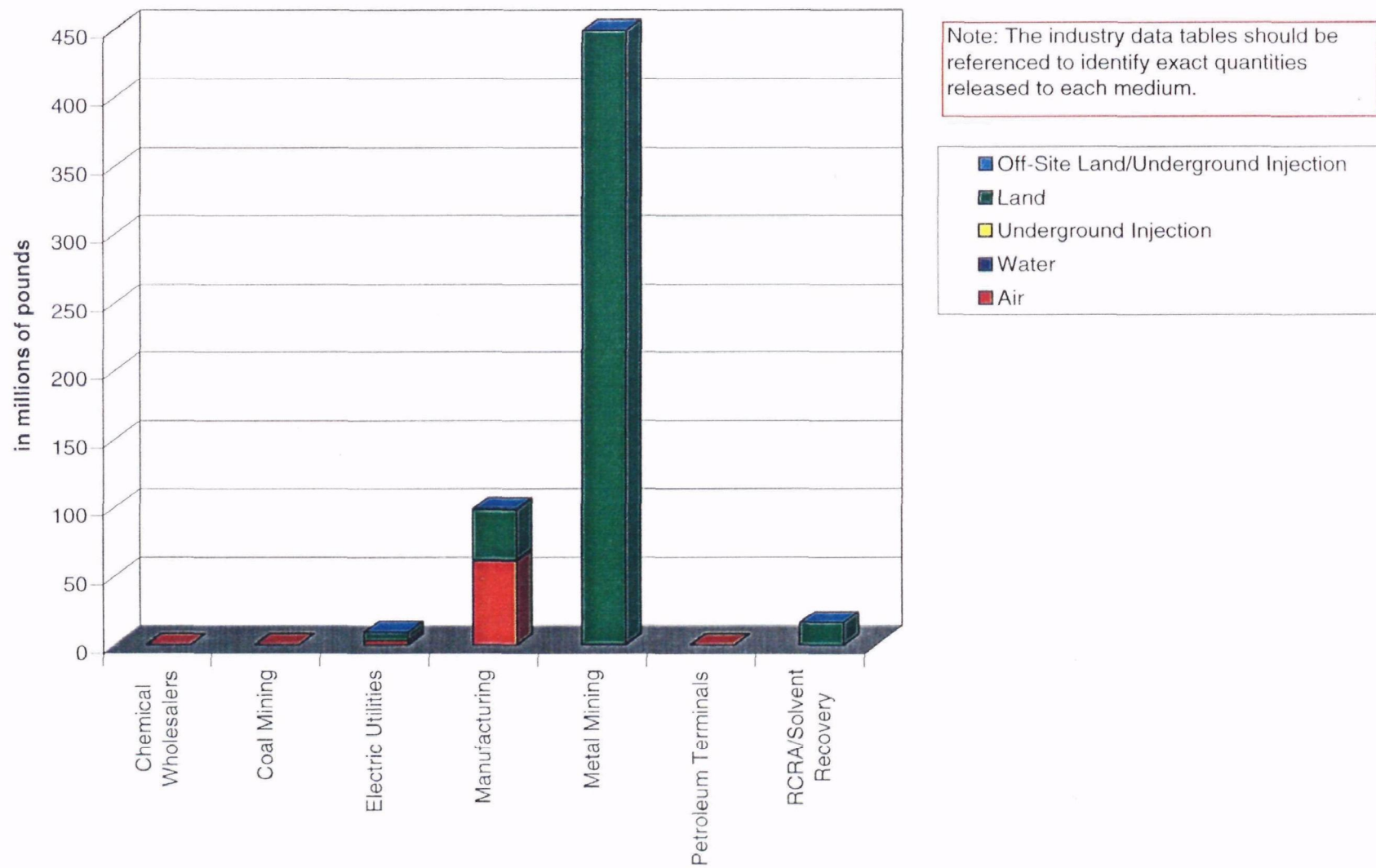
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

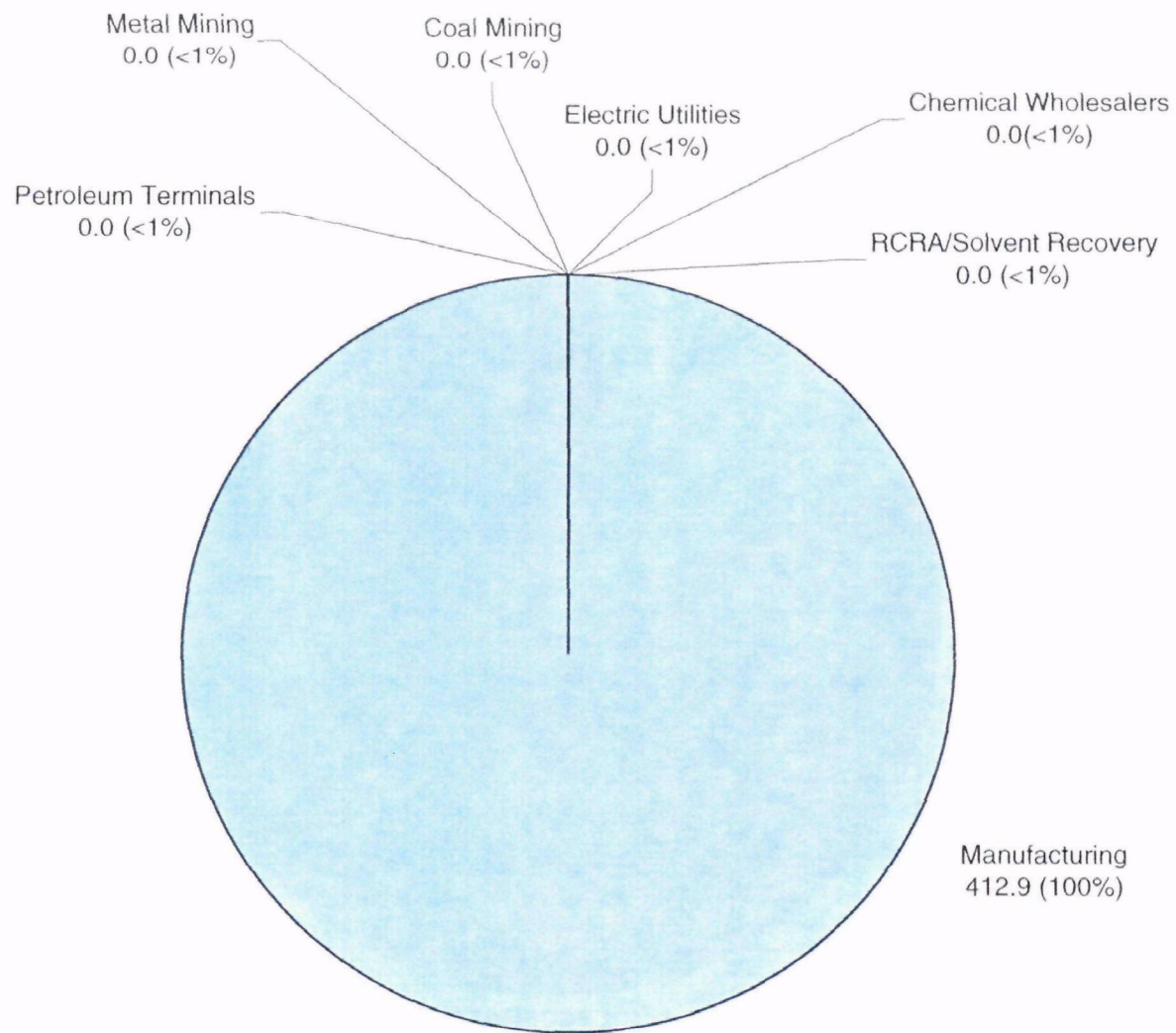
TRI Releases for Utah, 1998
(in millions of pounds)



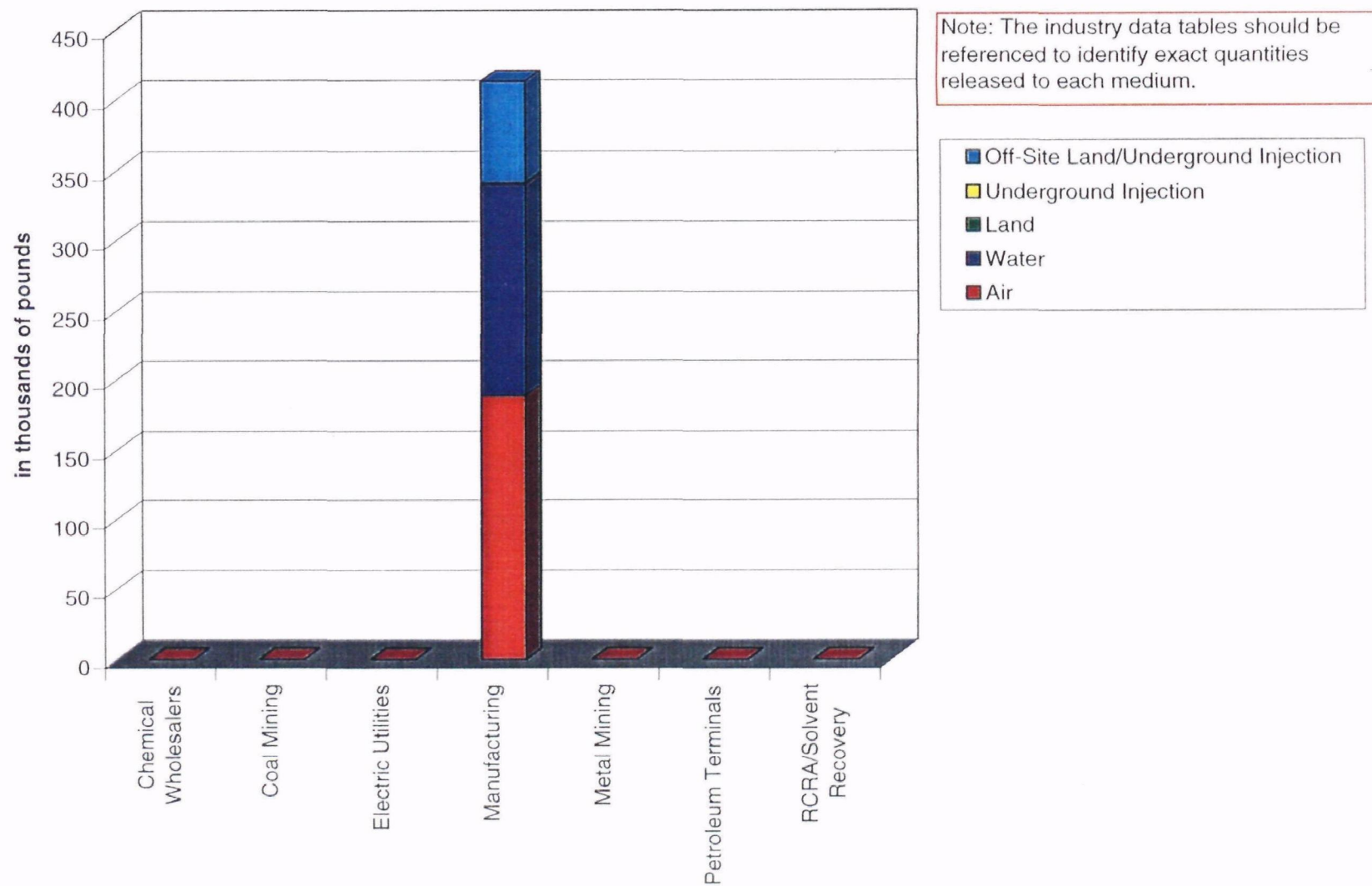
TRI Release for Utah, 1998



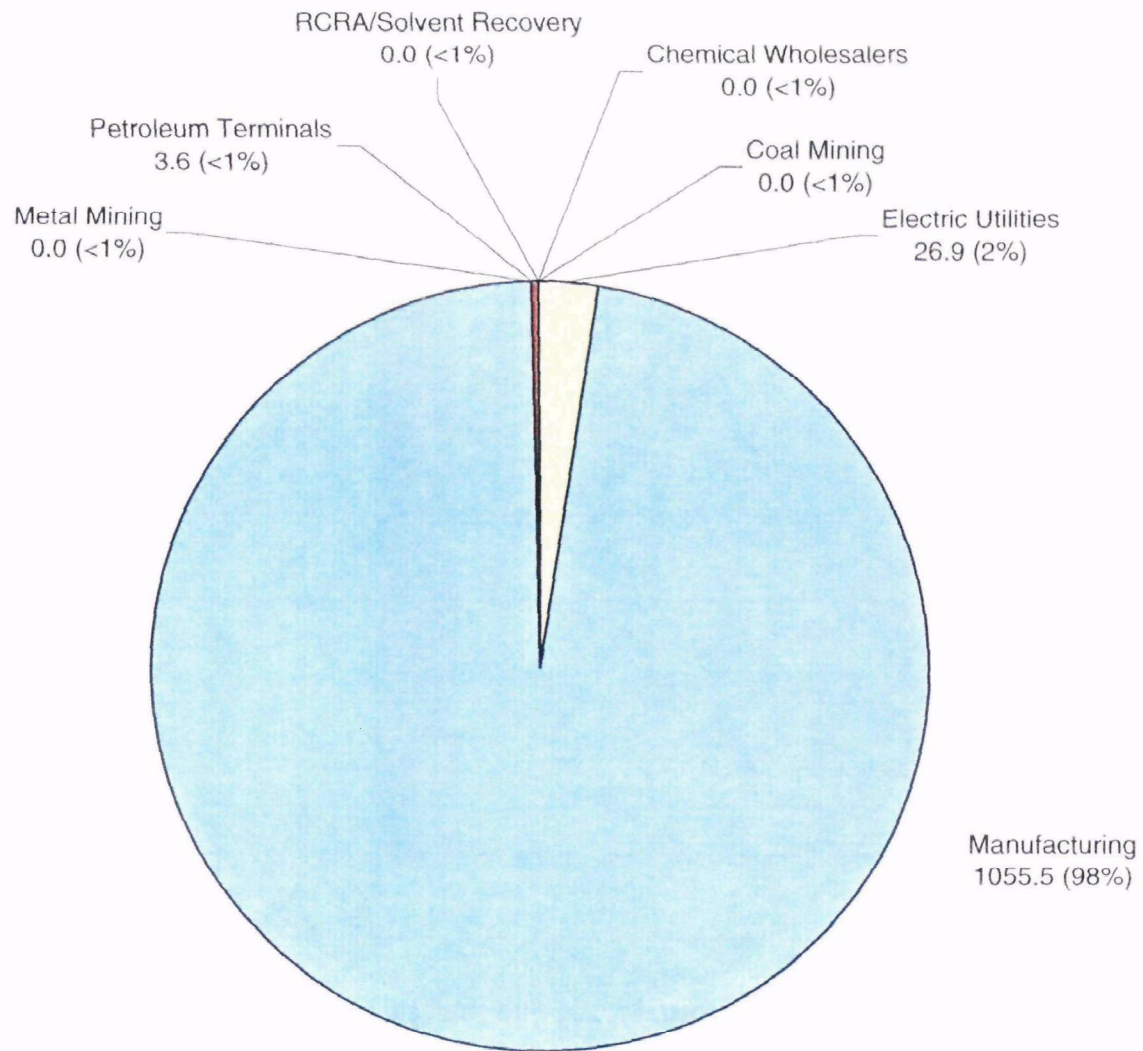
TRI Releases for Vermont, 1998
(in thousands of pounds)



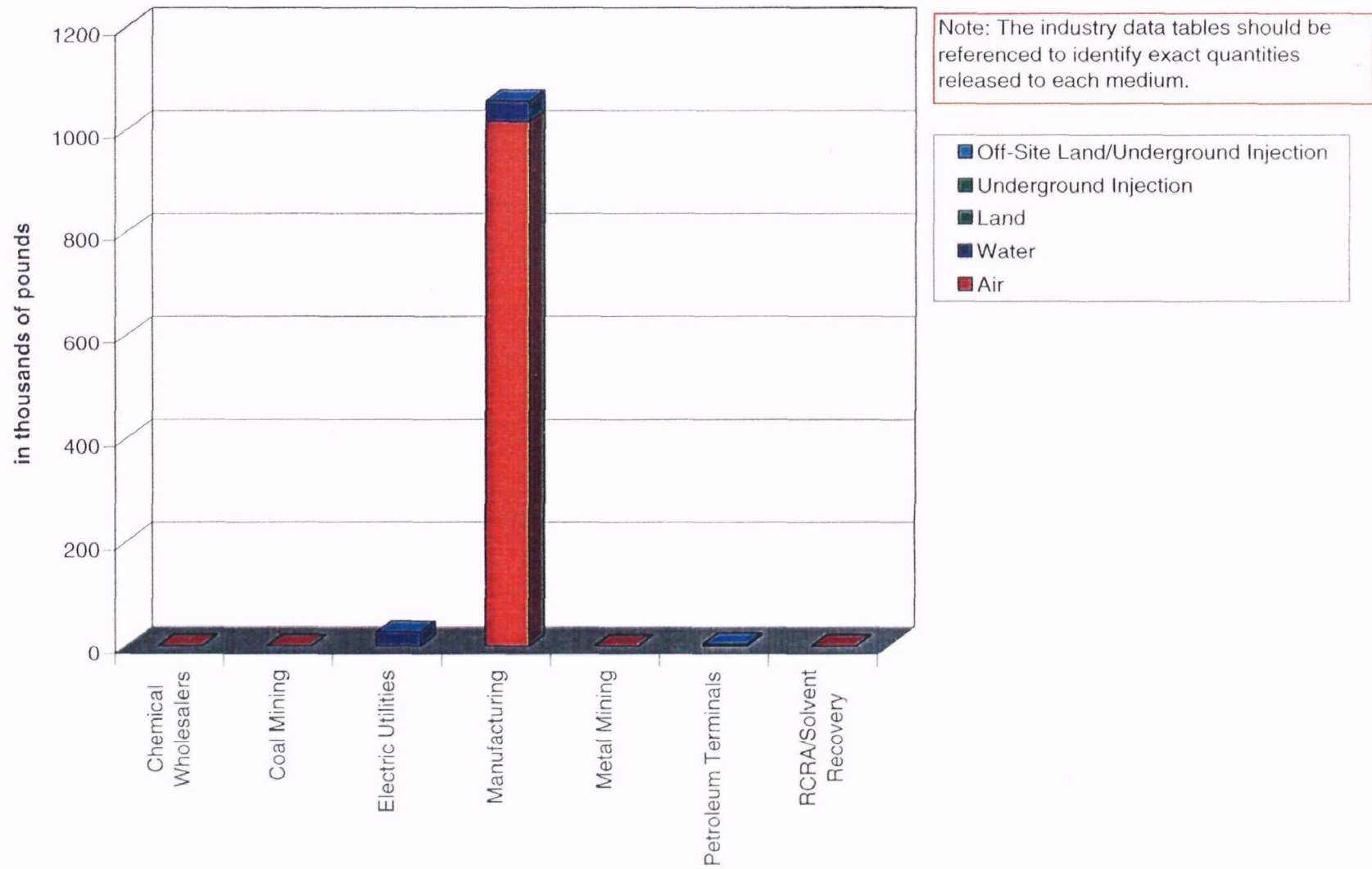
TRI Releases for Vermont, 1998



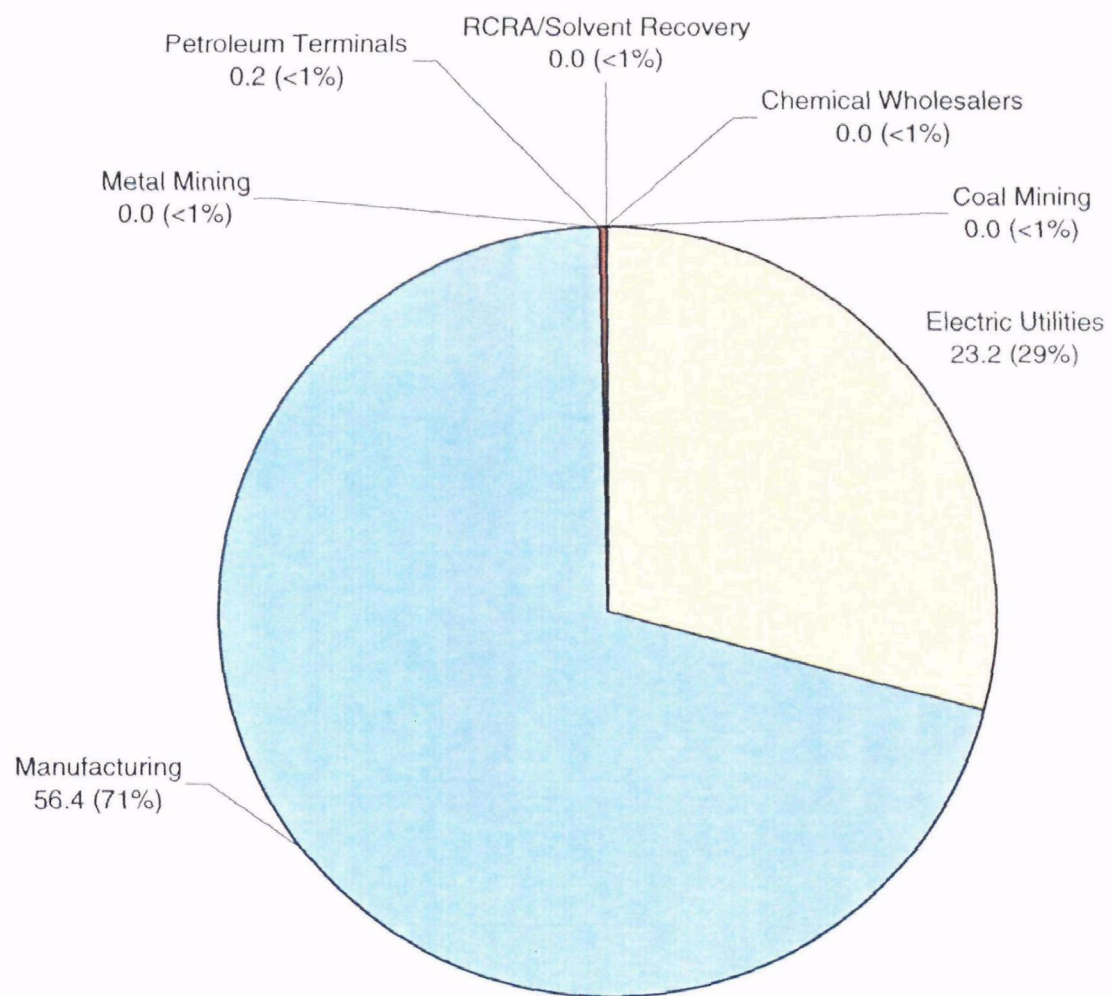
TRI Releases for Virgin Islands, 1998
(in thousands of pounds)



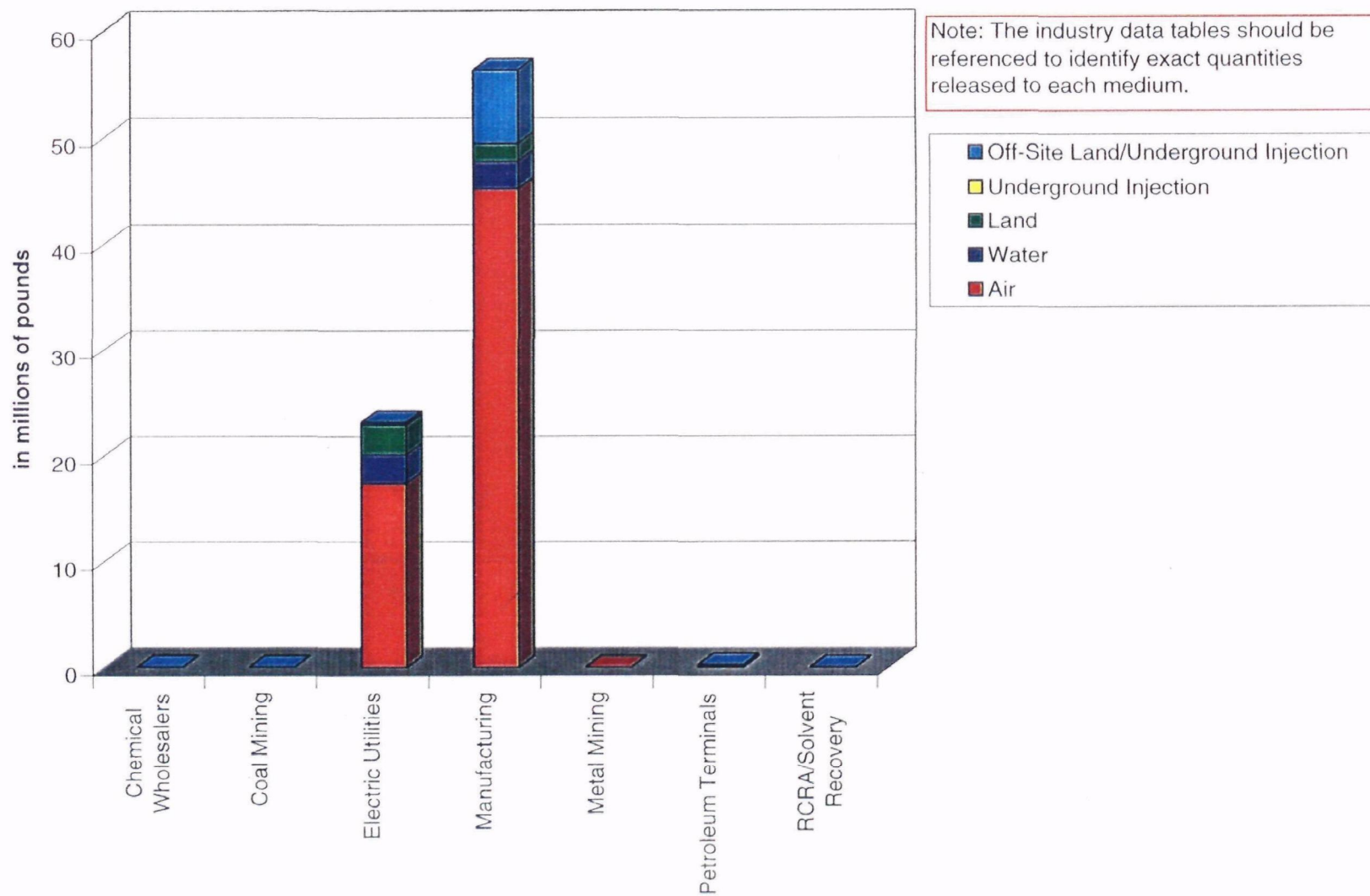
TRI Releases for Virgin Islands, 1998



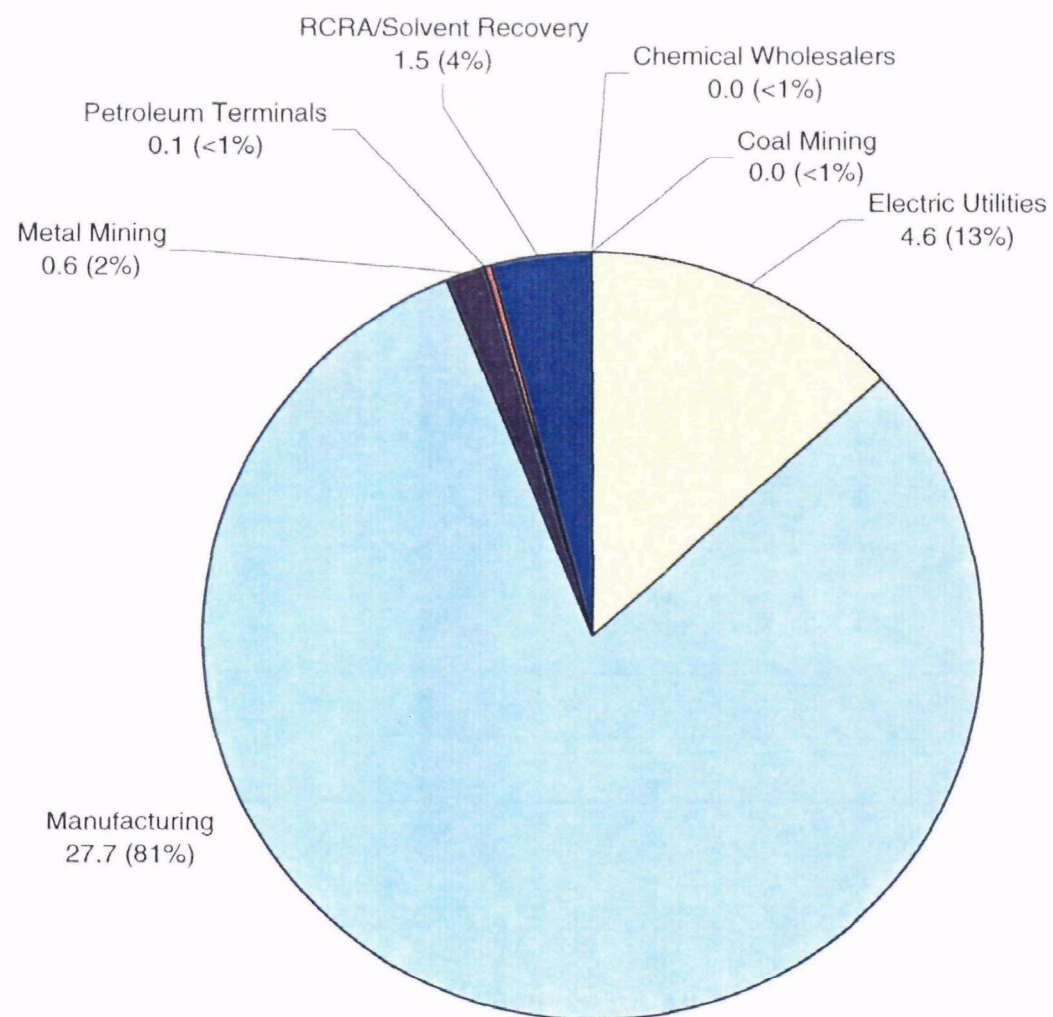
TRI Releases for Virginia, 1998
(in millions of pounds)



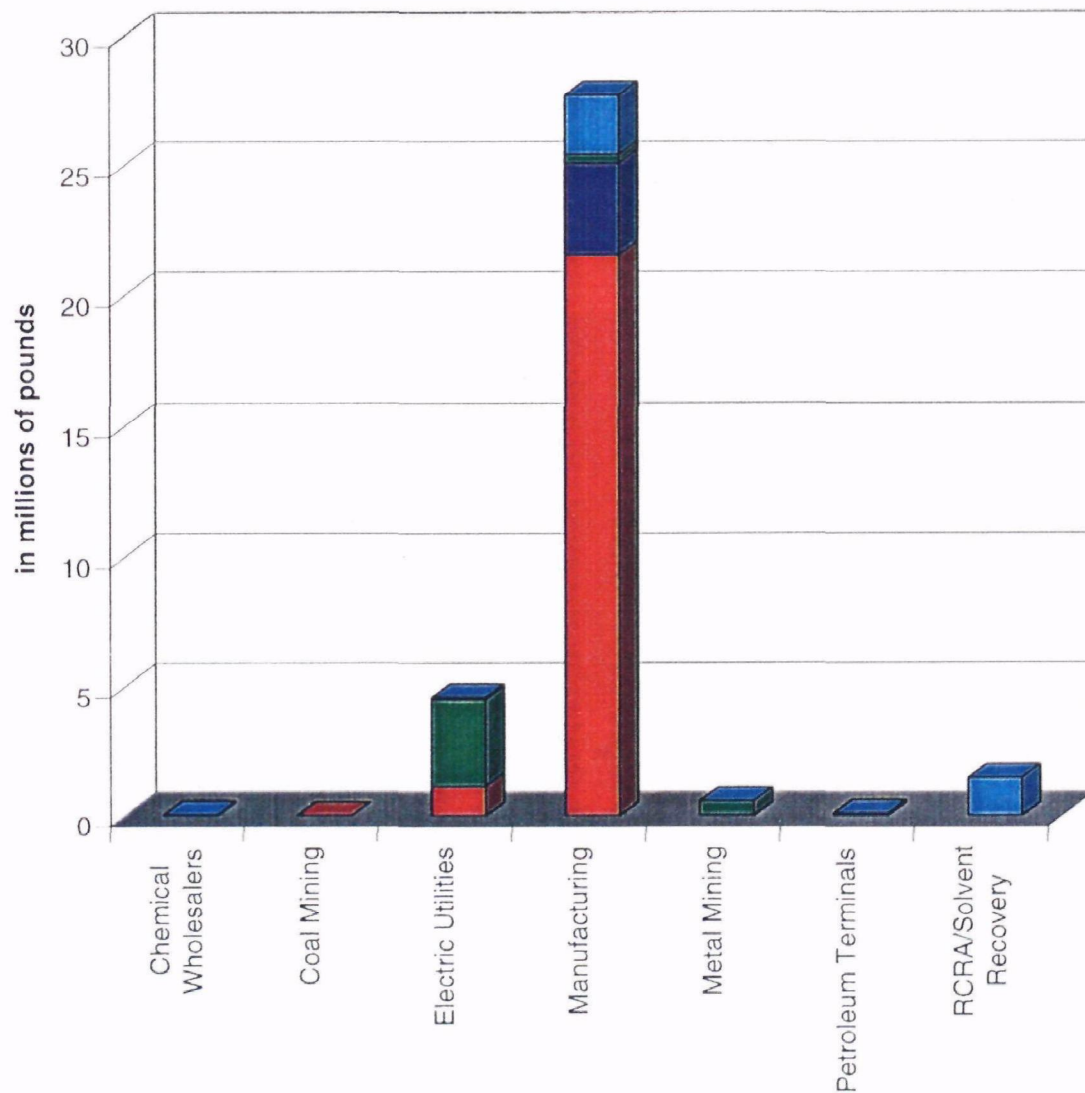
TRI Releases for Virginia, 1998



TRI Releases for Washington, 1998
(in millions of pounds)



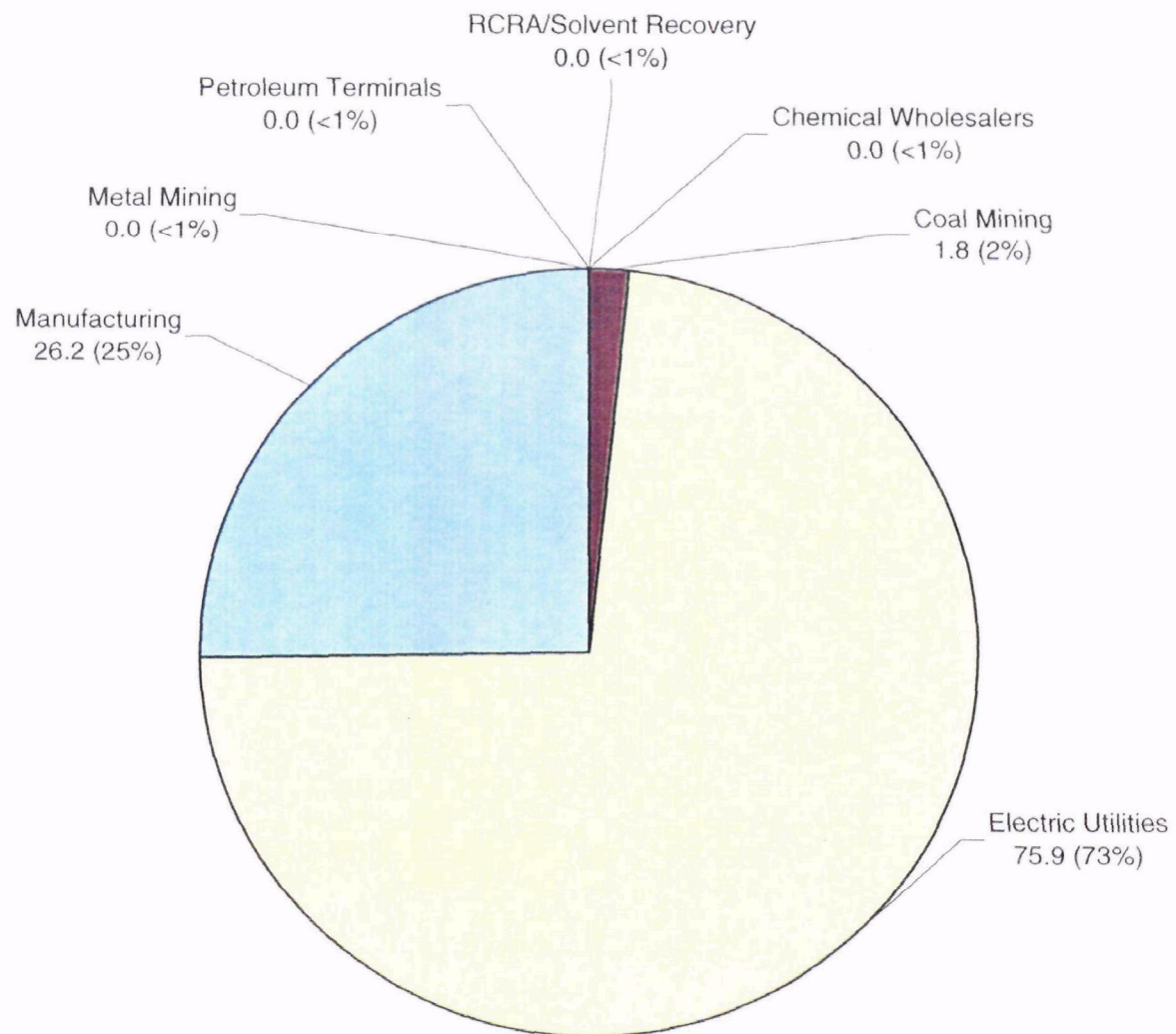
TRI Releases for Washington, 1998



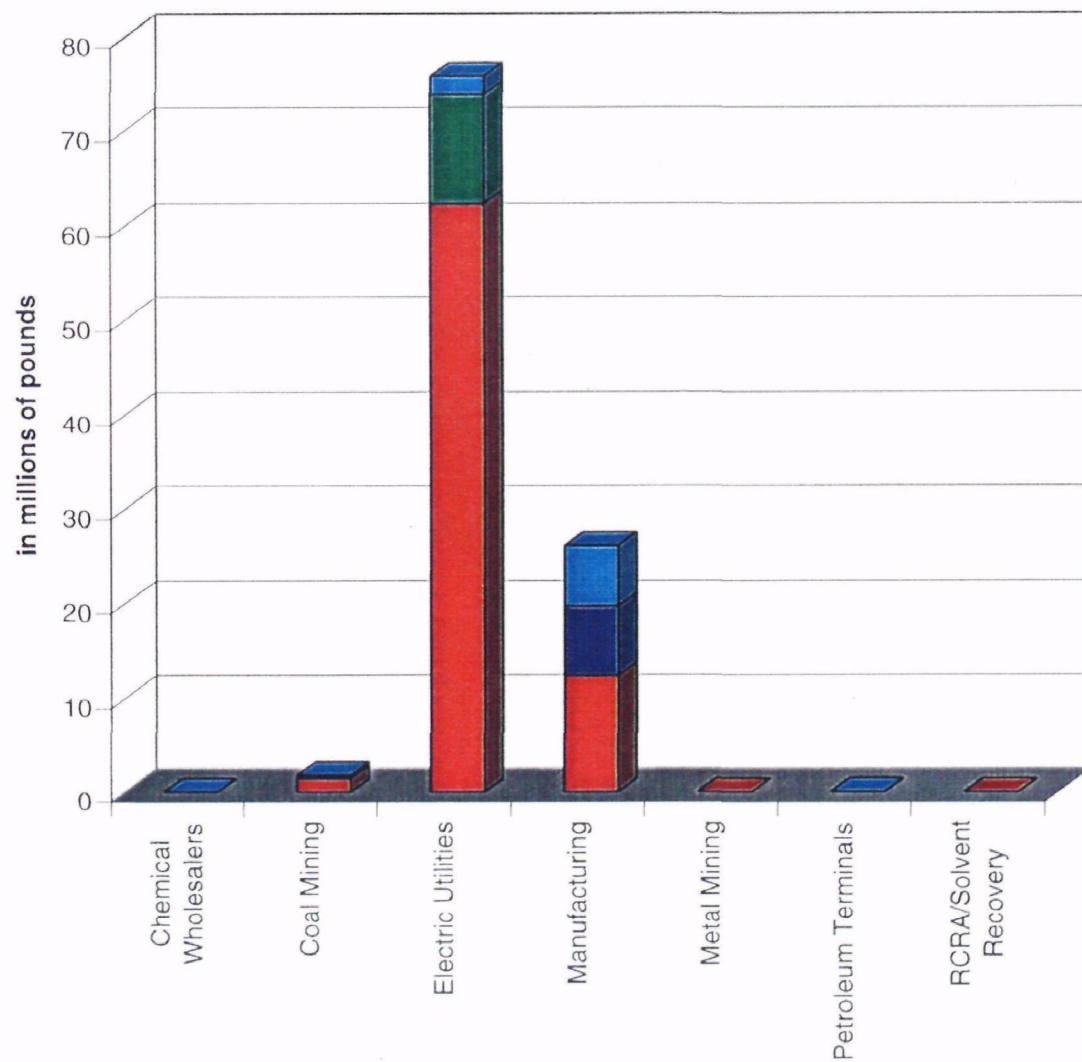
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for West Virginia, 1998
(in millions of pounds)



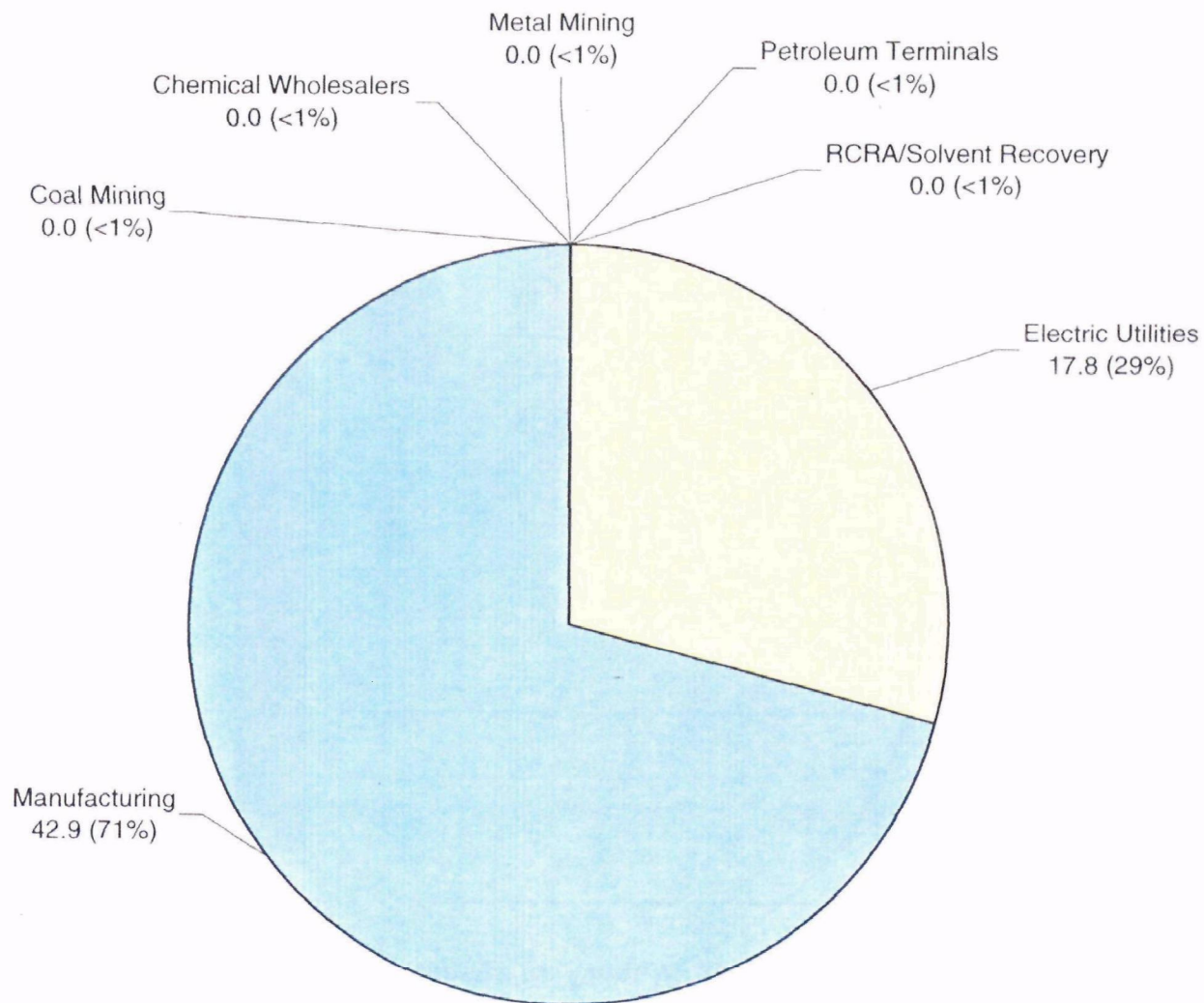
TRI Releases for West Virginia, 1998



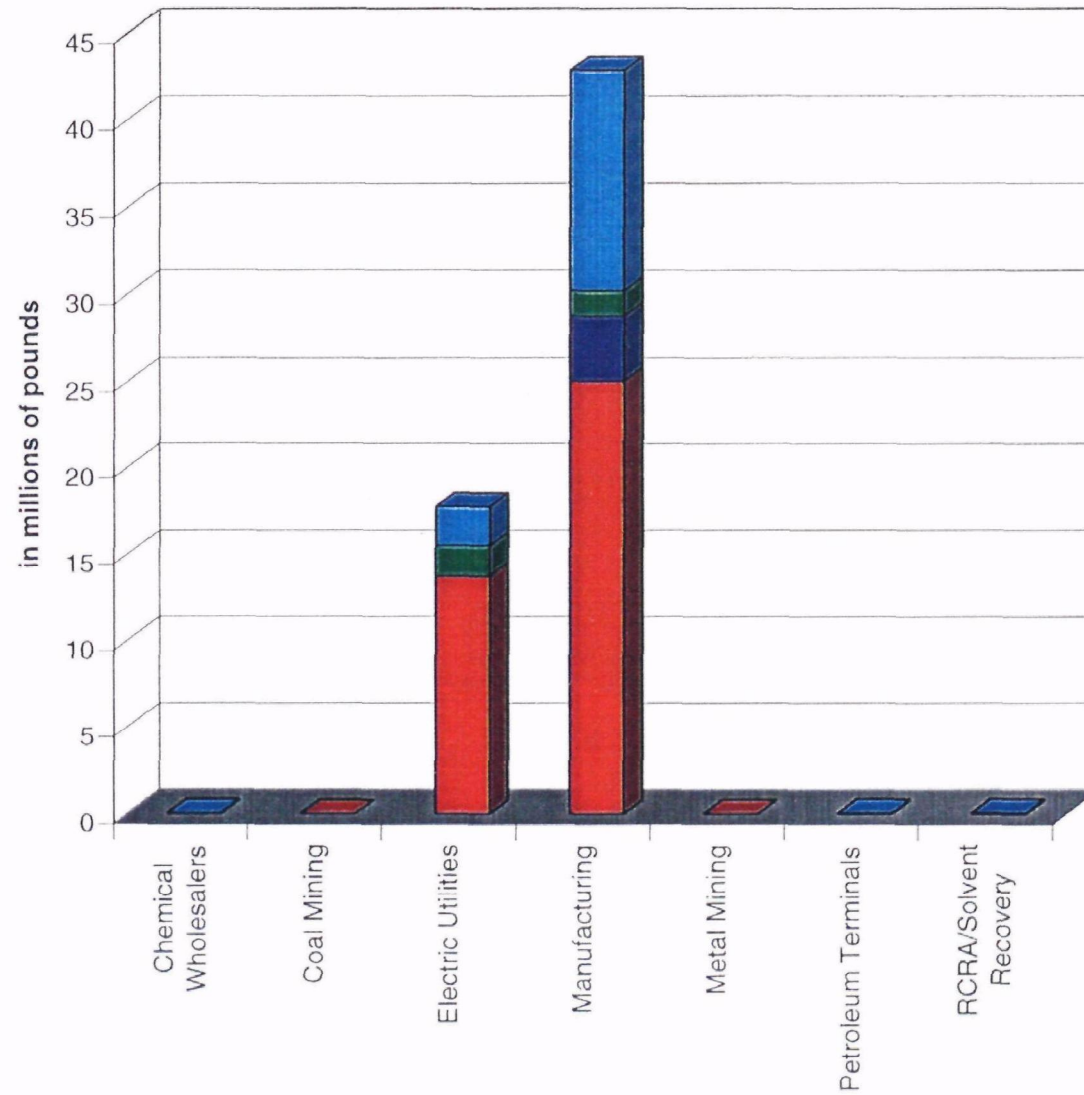
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Wisconsin, 1998
(in millions of pounds)



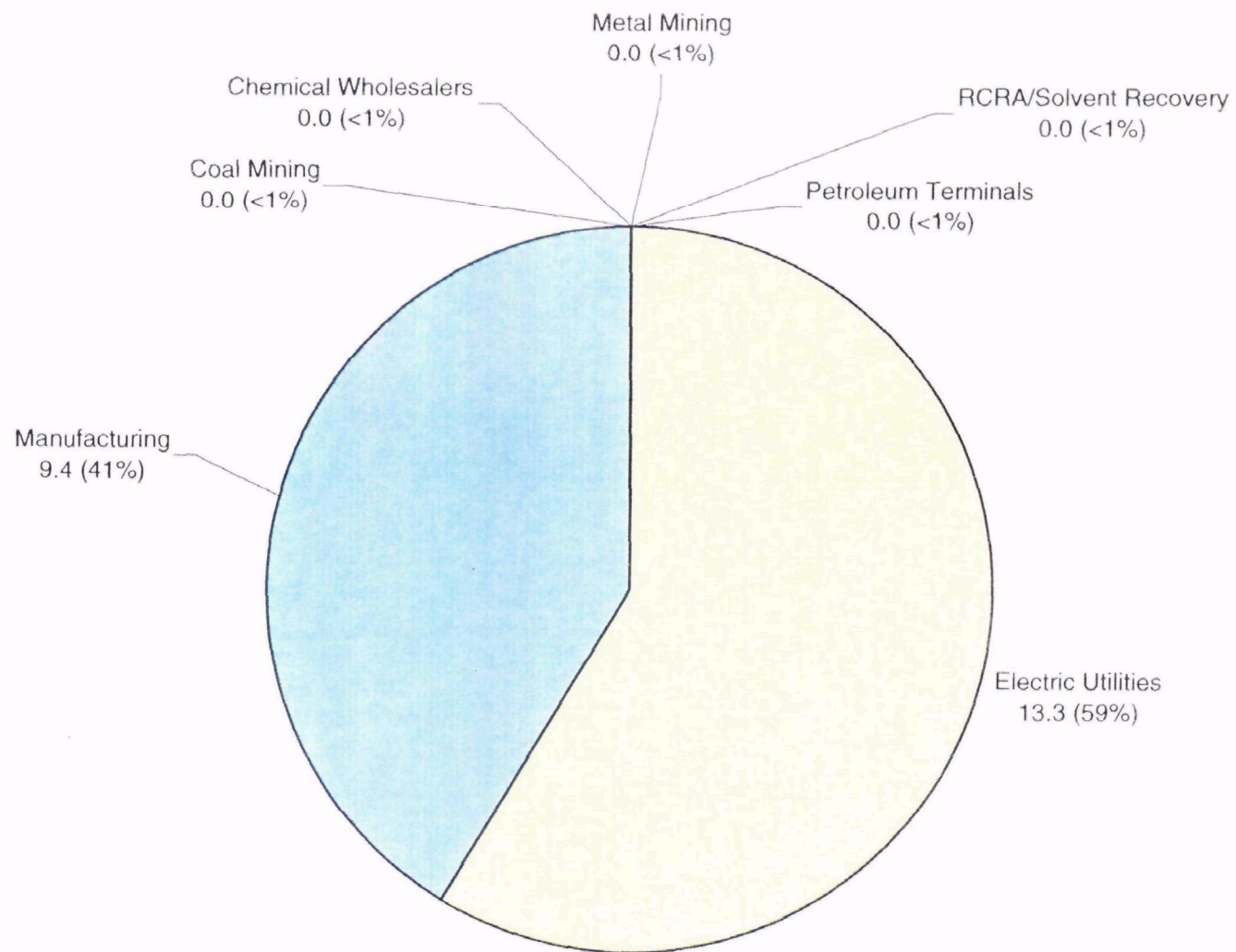
TRI Releases for Wisconsin, 1998



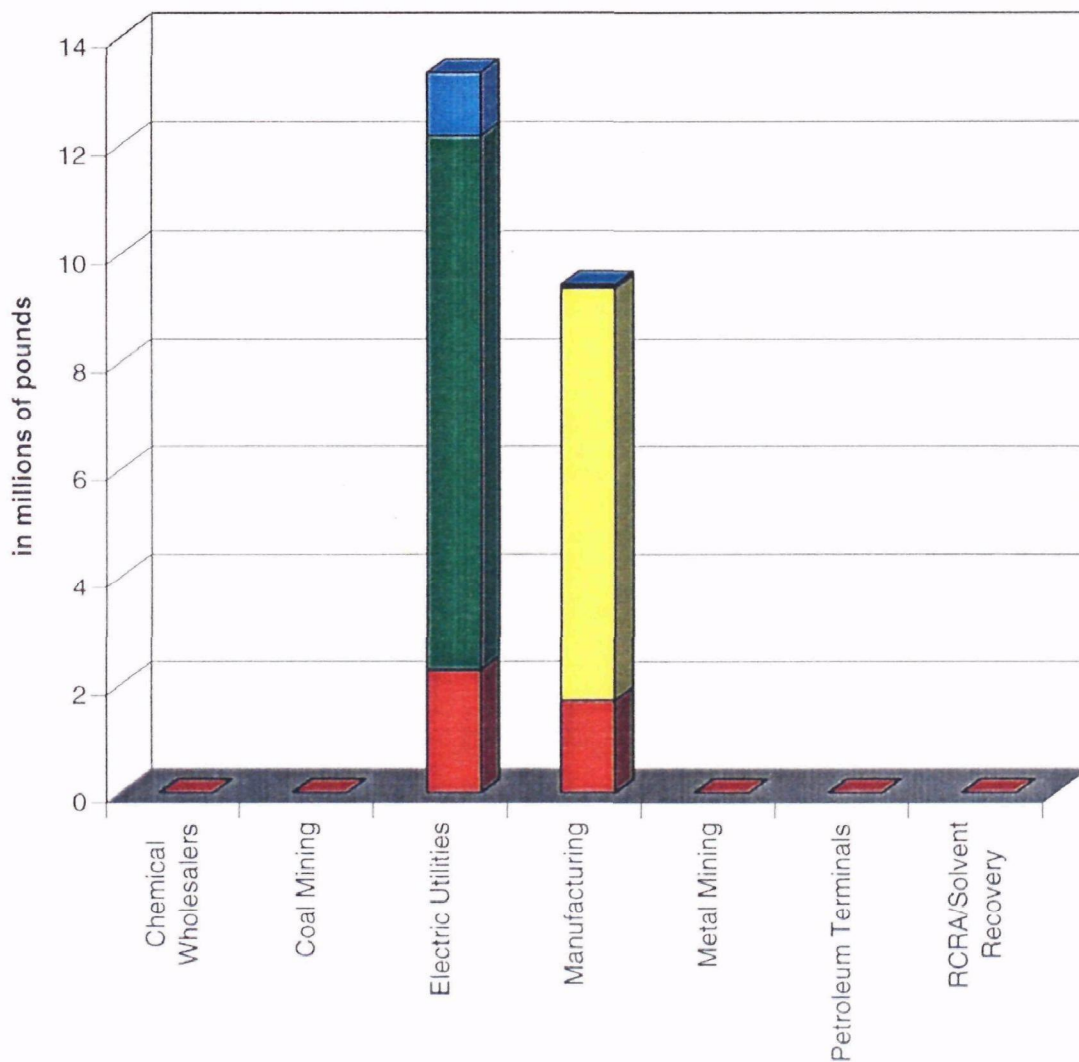
Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases for Wyoming, 1998
(in millions of pounds)



TRI Releases for Wyoming, 1998



Note: The industry data tables should be referenced to identify exact quantities released to each medium.

- Off-Site Land/Underground Injection
- Land
- Underground Injection
- Water
- Air

TRI Releases in 1998 for Manufacturers

Rank	State	Releases Total (in pounds)	Releases to Air (in pounds)	Releases to Water (in pounds)	Releases to Land (in pounds)	Releases by UIJ* (in pounds)	Releases Off-site Land and UIJ* (in pounds)
9	Alabama	88,587,372	54,160,590	4,810,219	12,063,365	5	17,553,193
48	Alaska	1,937,759	1,838,917	96,428	1,872	256	286
54	Amer Samoa	8,750	8,750	0	0	0	0
17	Arizona	54,082,148	5,840,821	5,038	47,396,365	4	839,920
23	Arkansas	35,441,761	25,858,289	1,820,349	2,260,736	1,172,187	4,330,200
21	California	40,426,044	26,784,463	3,854,112	1,861,485	81,905	7,844,079
43	Colorado	5,094,598	2,987,059	996,480	62,821	0	1,048,238
39	Connecticut	7,537,502	4,813,164	600,326	36,943	0	2,087,069
42	Delaware	5,419,979	4,238,492	747,352	347,187	0	86,948
53	Distr of Col	11,511	2,700	6	8,800	0	5
11	Florida	77,945,478	31,915,108	2,049,041	14,554,193	27,473,112	1,954,024
14	Georgia	57,497,994	46,621,812	6,288,967	2,172,316	0	2,414,899
--	Guam	0	0	0	0	0	0
51	Hawaii	418,924	376,116	2,057	33,634	3,849	3,268
32	Idaho	22,704,713	6,250,363	5,575,048	10,664,410	0	214,892
6	Illinois	102,450,323	58,775,372	6,264,554	19,688,463	250	17,721,684
5	Indiana	114,893,229	52,797,207	2,117,917	14,421,721	1,039,913	44,516,471
24	Iowa	35,295,218	25,575,473	3,118,336	2,281,999	0	4,319,410
26	Kansas	29,007,032	19,492,825	620,344	1,109,525	1,350,665	6,433,673
22	Kentucky	39,849,203	30,707,376	613,048	3,297,996	0	5,230,783
2	Louisiana	175,294,432	75,490,120	37,153,990	8,005,432	52,845,038	1,799,852
37	Maine	9,635,463	6,521,208	1,096,895	861,509	0	1,155,851
35	Maryland	13,229,861	8,213,866	2,375,596	1,994,518	0	645,881
41	Massachusetts	7,276,249	4,838,904	51,598	4,297	0	2,381,450
10	Michigan	83,112,541	40,997,059	483,956	2,158,257	3,431,059	36,042,210
34	Minnesota	19,380,144	15,904,943	812,176	287,522	0	2,375,503
13	Mississippi	60,409,191	35,436,941	11,383,390	5,509,305	6,892,506	1,187,049
15	Missouri	56,966,600	30,206,648	2,528,218	19,826,686	0	4,405,048
19	Montana	47,131,652	4,190,212	94,176	42,246,769	0	600,495
36	Nebraska	13,086,612	6,338,728	2,487,238	575,594	0	3,685,052
44	Nevada	4,204,845	1,750,522	0	2,421,469	0	32,854
46	New Hampshire	2,962,749	2,298,511	127,630	82,087	0	454,521
33	New Jersey	19,893,467	9,330,070	6,132,478	342,534	2	4,088,383
29	New Mexico	24,827,806	1,531,690	12,508	23,174,487	0	109,121
25	New York	34,978,295	21,867,773	7,873,875	139,808	500	5,096,339
12	North Carolina	75,631,935	44,780,426	7,294,815	18,643,394	29,100	4,884,200
47	North Dakota	2,449,480	2,255,973	43,280	2,506	0	147,721
--	N Marianas	0	0	0	0	0	0
3	Ohio	144,342,654	63,602,506	5,778,926	25,845,240	13,329,724	35,786,258
30	Oklahoma	24,179,379	16,867,200	751,512	715,096	3,318,269	2,527,302
31	Oregon	23,262,592	16,266,446	2,573,110	2,552,500	0	1,870,536
4	Pennsylvania	136,008,169	38,602,369	45,483,216	2,151,583	0	49,771,001
40	Puerto Rico	7,286,803	6,504,721	128,874	9,557	0	643,651
49	Rhode Island	1,732,874	1,433,349	1,465	505	0	297,555
18	South Carolina	53,908,360	43,284,655	3,343,152	2,016,779	0	5,263,774
45	South Dakota	3,251,231	2,314,440	808,061	13,807	0	114,923
8	Tennessee	93,108,376	77,905,764	1,442,948	3,953,670	3,816,300	5,989,694
1	Texas	259,158,224	110,705,485	25,158,641	20,237,631	88,197,920	14,858,547
7	Utah	99,436,237	61,208,838	1,131,818	36,148,158	0	947,423
52	Vermont	412,965	189,210	151,374	1,005	0	71,376
50	Virgin Islands	1,055,561	1,016,014	37,903	1,502	0	142
16	Virginia	56,422,359	45,297,883	2,561,850	1,617,352	0	6,945,274
27	Washington	27,730,170	21,604,993	3,497,496	344,215	0	2,283,466
28	West Virginia	26,150,838	12,404,749	7,266,259	43,557	20	6,436,253
20	Wisconsin	42,879,282	25,035,473	3,711,391	1,442,063	0	12,690,355
38	Wyoming	9,437,663	1,708,858	6,325	40,649	7,656,805	25,026
Total		2,378,844,597	1,256,951,444	223,365,762	355,674,874	210,639,389	332,213,128

* UIJ = underground injection

TRI Releases in 1998 for Metal Mining

Rank	State	Releases Total (in pounds)	Releases to Air (in pounds)	Releases to Water (in pounds)	Releases to Land (in pounds)	Releases by UII* (in pounds)	Releases On-site Land and UII* (in pounds)
--	Alabama	0	0	0	0	0	0
4	Alaska	304,495,159	511,214	1,335	274,958,589	29,024,900	21
--	Amer Samoa	0	0	0	0	0	0
2	Arizona	1,005,773,568	584,912	193	1,005,141,555	0	46,908
--	Arkansas	0	0	0	0	0	0
15	California	8,747,616	362,004	5	8,373,318	0	12,289
12	Colorado	14,600,777	10,768	1,422	10,322,879	3,975,708	290,000
--	Connecticut	0	0	0	0	0	0
19	Delaware	12,713	11,963	0	0	0	750
--	Distr of Col	0	0	0	0	0	0
--	Florida	0	0	0	0	0	0
--	Georgia	0	0	0	0	0	0
--	Guam	0	0	0	0	0	0
--	Hawaii	0	0	0	0	0	0
8	Idaho	45,193,006	8,693	7,924	45,176,356	0	33
16	Illinois	609,917	16,521	0	0	0	593,396
--	Indiana	0	0	0	0	0	0
--	Iowa	0	0	0	0	0	0
--	Kansas	0	0	0	0	0	0
--	Kentucky	0	0	0	0	0	0
--	Louisiana	0	0	0	0	0	0
--	Maine	0	0	0	0	0	0
--	Maryland	0	0	0	0	0	0
--	Massachusetts	0	0	0	0	0	0
--	Michigan	0	0	0	0	0	0
--	Minnesota	0	0	0	0	0	0
--	Mississippi	0	0	0	0	0	0
7	Missouri	47,281,863	139,670	29,661	47,112,532	0	0
6	Montana	68,423,630	143,173	0	68,280,457	0	0
--	Nebraska	0	0	0	0	0	0
1	Nevada	1,263,243,615	1,453,263	236,050	1,261,552,860	1,404	38
--	New Hampshire	0	0	0	0	0	0
--	New Jersey	0	0	0	0	0	0
5	New Mexico	222,178,779	332,059	8	221,846,712	0	0
14	New York	10,144,538	65,560	5,973	10,073,005	0	0
--	North Carolina	0	0	0	0	0	0
--	North Dakota	0	0	0	0	0	0
--	N Marianas	0	0	0	0	0	0
--	Ohio	0	0	0	0	0	0
--	Oklahoma	0	0	0	0	0	0
10	Oregon	18,189,856	10,460	0	18,179,396	0	0
--	Pennsylvania	0	0	0	0	0	0
--	Puerto Rico	0	0	0	0	0	0
--	Rhode Island	0	0	0	0	0	0
9	South Carolina	23,017,000	24,000	0	22,993,000	0	0
11	South Dakota	17,147,723	85,608	210,595	16,851,505	0	15
13	Tennessee	10,752,750	177,725	14,939	10,560,086	0	0
18	Texas	414,630	54,030	0	0	0	360,600
3	Utah	449,105,661	533,668	14,742	448,554,670	0	2,581
--	Vermont	0	0	0	0	0	0
--	Virgin Islands	0	0	0	0	0	0
--	Virginia	0	0	0	0	0	0
17	Washington	574,074	27,045	0	547,025	0	4
--	West Virginia	0	0	0	0	0	0
--	Wisconsin	0	0	0	0	0	0
--	Wyoming	0	0	0	0	0	0
Total		3,509,906,875	4,552,336	522,847	3,470,523,945	33,001,112	1,306,635

* UII = underground injection

TRI Releases in 1998 for Coal Mining

Rank	State	Releases	Releases	Releases	Releases	Releases by	Releases
		Total	to Air	to Water	to Land	U/I*	Off-site
		(in pounds)	(in pounds)	(in pounds)	(in pounds)	(in pounds)	Land and U/I*
5	Alabama	1,030,087	87	10,000	975,000	45,000	0
--	Alaska	0	0	0	0	0	0
--	Amer Samoa	0	0	0	0	0	0
--	Arizona	0	0	0	0	0	0
--	Arkansas	0	0	0	0	0	0
--	California	0	0	0	0	0	0
4	Colorado	1,593,746	419	579	1,592,748	0	0
--	Connecticut	0	0	0	0	0	0
--	Delaware	0	0	0	0	0	0
--	Distr of Col	0	0	0	0	0	0
--	Florida	0	0	0	0	0	0
--	Georgia	0	0	0	0	0	0
--	Guam	0	0	0	0	0	0
--	Hawaii	0	0	0	0	0	0
--	Idaho	0	0	0	0	0	0
2	Illinois	2,715,041	1,780	4,843	2,708,418	0	0
8	Indiana	75,371	18,465	0	56,426	480	0
--	Iowa	0	0	0	0	0	0
--	Kansas	0	0	0	0	0	0
10	Kentucky	19,588	14,688	0	4,900	0	0
--	Louisiana	0	0	0	0	0	0
--	Maine	0	0	0	0	0	0
9	Maryland	60,023	13,313	1,450	260	45,000	0
--	Massachusetts	0	0	0	0	0	0
--	Michigan	0	0	0	0	0	0
--	Minnesota	0	0	0	0	0	0
--	Mississippi	0	0	0	0	0	0
--	Missouri	0	0	0	0	0	0
--	Montana	0	0	0	0	0	0
--	Nebraska	0	0	0	0	0	0
--	Nevada	0	0	0	0	0	0
--	New Hampshire	0	0	0	0	0	0
--	New Jersey	0	0	0	0	0	0
1	New Mexico	5,620,000	0	0	5,620,000	0	0
--	New York	0	0	0	0	0	0
--	North Carolina	0	0	0	0	0	0
7	North Dakota	96,707	0	0	96,707	0	0
--	N Marianas	0	0	0	0	0	0
11	Ohio	3,642	2,390	502	750	0	0
--	Oklahoma	0	0	0	0	0	0
--	Oregon	0	0	0	0	0	0
6	Pennsylvania	318,563	36,853	15	281,695	0	0
--	Puerto Rico	0	0	0	0	0	0
--	Rhode Island	0	0	0	0	0	0
--	South Carolina	0	0	0	0	0	0
--	South Dakota	0	0	0	0	0	0
--	Tennessee	0	0	0	0	0	0
--	Texas	0	0	0	0	0	0
--	Utah	0	0	0	0	0	0
--	Vermont	0	0	0	0	0	0
--	Virgin Islands	0	0	0	0	0	0
12	Virginia	1,810	1,630	0	180	0	0
--	Washington	0	0	0	0	0	0
3	West Virginia	1,791,466	1,368,089	288,838	134,539	0	0
--	Wisconsin	0	0	0	0	0	0
--	Wyoming	0	0	0	0	0	0
Total		13,326,044	1,457,714	306,227	11,471,623	90,480	0

* U/I = underground injection

FRI Releases in 1998 for Electric Utilities

Rank	State	Releases Total (in pounds)	Releases to Air (in pounds)	Releases to Water (in pounds)	Releases to Land (in pounds)	Releases by UJI* (in pounds)	Releases Off-site Land and UJI* (in pounds)
9	Alabama	46,081,146	28,660,982	211,735	16,841,649	0	366,780
47	Alaska	567,100	567,100	0	0	0	0
--	Amer Samoa	0	0	0	0	0	0
28	Arizona	9,533,058	3,531,238	955	5,994,157	0	6,708
40	Arkansas	3,298,535	1,248,681	20,329	2,028,613	0	912
46	California	578,760	385,620	17	147,300	0	45,823
30	Colorado	8,849,939	1,912,616	2,980	3,153,460	0	3,780,883
44	Connecticut	1,476,628	1,259,018	39	0	0	217,571
35	Delaware	7,732,648	6,818,633	59,740	590,579	0	263,696
49	Distr of Col	66,250	66,250	0	0	0	0
4	Florida	68,738,697	57,697,392	67,446	8,427,744	0	2,546,115
7	Georgia	58,465,768	47,191,872	137,364	11,136,522	0	10
--	Guam	0	0	0	0	0	0
41	Hawaii	3,137,522	3,133,022	0	0	0	4,500
--	Idaho	0	0	0	0	0	0
12	Illinois	38,591,148	32,126,653	40,697	4,752,045	0	1,671,753
5	Indiana	61,887,971	44,326,731	312,566	16,410,667	0	838,007
21	Iowa	13,693,302	8,696,569	14,967	3,945,293	0	1,036,473
25	Kansas	10,992,584	5,113,220	6,515	5,772,385	0	100,464
6	Kentucky	58,814,104	44,786,767	788,373	12,744,991	0	493,973
31	Louisiana	8,799,994	4,197,816	79,231	4,520,798	0	2,149
50	Maine	43,001	43,001	0	0	0	0
15	Maryland	25,535,714	24,749,607	129,725	147,282	0	509,100
37	Massachusetts	6,122,238	5,639,923	531	39,335	0	442,449
10	Michigan	45,594,255	33,812,186	201,662	9,540,682	0	2,039,725
23	Minnesota	12,973,192	1,751,834	18,636	10,097,510	0	1,105,212
24	Mississippi	11,304,718	9,271,476	4,712	2,028,530	0	0
14	Missouri	32,430,635	12,983,638	130,117	19,316,590	0	290
34	Montana	7,940,176	950,655	10	6,830,111	0	159,400
33	Nebraska	7,983,522	4,086,255	120,760	3,611,307	0	165,200
42	Nevada	2,881,442	1,209,417	0	1,661,938	0	10,087
39	New Hampshire	4,097,749	4,026,179	0	21,700	0	49,870
32	New Jersey	8,055,418	7,529,062	36,569	311,900	0	177,887
36	New Mexico	7,443,520	711,363	8,468	1,177,689	0	5,546,000
18	New York	18,696,453	16,100,838	166,365	1,925,080	0	504,170
8	North Carolina	56,948,874	48,387,026	99,731	8,304,875	0	157,242
17	North Dakota	20,835,247	1,404,407	59,011	8,069,360	0	11,302,469
--	N Marianas	0	0	0	0	0	0
1	Ohio	113,923,643	95,220,630	386,974	14,008,971	0	4,307,068
27	Oklahoma	9,707,918	6,178,303	61,874	1,839,091	0	1,628,650
45	Oregon	747,590	127,585	0	620,005	0	0
3	Pennsylvania	73,183,707	58,894,300	84,857	5,627,579	160,800	8,416,171
26	Puerto Rico	10,277,247	9,857,078	62,123	154,741	0	203,305
48	Rhode Island	455,007	455,002	5	0	0	0
20	South Carolina	16,130,161	13,713,725	7,925	2,387,888	0	20,623
43	South Dakota	1,911,778	189,732	56	1,625,000	0	96,990
13	Tennessee	35,299,200	26,657,215	332,655	7,794,265	0	515,065
11	Texas	41,252,939	8,138,409	33,911	25,280,363	0	7,800,256
29	Utah	9,225,372	2,981,457	198	6,031,746	0	211,971
--	Vermont	0	0	0	0	0	0
51	Virgin Islands	26,913	81	26,832	0	0	0
16	Virginia	23,224,456	17,440,563	2,677,567	2,807,865	0	298,461
38	Washington	4,593,693	1,139,941	738	3,364,936	0	88,078
2	West Virginia	75,881,813	62,340,588	81,669	11,500,597	18	1,958,941
19	Wisconsin	17,769,755	13,704,098	25,853	1,758,842	0	2,280,962
22	Wyoming	13,344,174	2,270,618	12,647	9,891,517	0	1,169,392
Total		1,117,146,674	783,686,372	6,515,135	264,243,498	160,818	62,540,851

* UJI = underground injection

TRI Releases in 1998 for Petroleum Bulk Terminals

Rank	State	Releases Total (in pounds)	Releases to Air (in pounds)	Releases to Water (in pounds)	Releases to Land (in pounds)	Releases by UI*	Releases Off-site Land UI*
42	Alabama	9,530	9,381	78	20	0	51
37	Alaska	17,866	17,503	0	38	0	325
44	Amer Samoa	5,147	5,146	1	0	0	0
22	Arizona	57,397	57,387	0	0	0	10
34	Arkansas	24,216	24,216	0	0	0	0
2	California	496,843	470,307	72	2,043	0	24,421
14	Colorado	114,573	79,668	515	34,390	0	0
8	Connecticut	203,393	177,468	45	0	0	25,880
48	Delaware	2,100	2,100	0	0	0	0
--	Distr of Col	0	0	0	0	0	0
11	Florida	154,117	151,682	389	1,810	0	236
27	Georgia	35,668	34,607	545	0	0	516
39	Guam	11,058	9,783	1,275	0	0	0
23	Hawaii	56,407	56,407	0	0	0	0
29	Idaho	30,224	30,224	0	0	0	0
15	Illinois	114,489	108,246	120	1,609	0	4,514
9	Indiana	181,858	175,042	1,227	15	0	5,574
40	Iowa	9,978	9,935	0	0	0	43
31	Kansas	29,075	28,055	1,020	0	0	0
28	Kentucky	33,423	33,309	0	0	0	114
41	Louisiana	9,647	9,394	3	250	0	0
20	Maine	67,953	50,787	2	0	0	17,164
17	Maryland	91,117	89,175	1,600	116	0	226
5	Massachusetts	286,910	237,434	9,468	0	0	40,008
12	Michigan	130,069	130,038	31	0	0	0
45	Minnesota	3,817	3,110	0	0	0	707
30	Mississippi	29,372	28,585	36	0	0	751
19	Missouri	71,090	67,900	30	0	0	3,160
35	Montana	23,586	23,586	0	0	0	0
--	Nebraska	0	0	0	0	0	0
--	Nevada	0	0	0	0	0	0
--	New Hampshire	0	0	0	0	0	0
4	New Jersey	310,138	296,064	537	0	0	13,537
26	New Mexico	42,055	42,055	0	0	0	0
3	New York	325,122	302,030	658	169	0	22,265
10	North Carolina	155,809	153,474	1,048	0	0	1,287
--	North Dakota	0	0	0	0	0	0
47	N Marianas	3,086	3,066	20	0	0	0
13	Ohio	121,841	107,514	709	3,164	0	10,454
24	Oklahoma	49,020	49,020	0	0	0	0
21	Oregon	61,607	60,199	38	0	0	1,370
7	Pennsylvania	222,023	216,632	2,149	0	0	3,242
36	Puerto Rico	22,351	21,796	0	0	0	555
18	Rhode Island	84,115	48,113	356	0	0	35,646
32	South Carolina	28,234	27,662	561	0	0	11
--	South Dakota	0	0	0	0	0	0
25	Tennessee	46,216	45,312	394	0	0	510
1	Texas	530,011	522,883	1,558	1,500	0	4,070
43	Utah	5,988	5,988	0	0	0	0
--	Vermont	0	0	0	0	0	0
46	Virgin Islands	3,676	3,641	0	0	0	35
6	Virginia	244,556	127,367	113,127	0	0	4,062
16	Washington	92,168	73,452	0	7,063	0	11,653
38	West Virginia	13,904	12,119	280	1,505	0	0
33	Wisconsin	26,030	24,885	55	0	0	1,090
--	Wyoming	0	0	0	0	0	0
Total		4,688,873	4,263,747	137,947	53,692	0	233,487

* UIJ = underground injection

TRI Releases in 1998 for Chemical Wholesalers

Rank	State	Releases Total (in pounds)	Releases to Air (in pounds)	Releases to Water (in pounds)	Releases to Land (in pounds)	Releases by UI* (in pounds)	Releases Off-site Land and UI* (in pounds)
20	Alabama	25,916	25,916	0	0	0	0
37	Alaska	1,255	1,255	0	0	0	0
--	Amer Samoa	0	0	0	0	0	0
27	Arizona	12,249	12,249	0	0	0	0
39	Arkansas	985	985	0	0	0	0
4	California	120,126	108,745	536	0	0	10,845
33	Colorado	4,092	4,092	0	0	0	0
31	Connecticut	7,408	7,408	0	0	0	0
--	Delaware	0	0	0	0	0	0
--	Distr of Col	0	0	0	0	0	0
6	Florida	84,102	84,042	50	10	0	0
12	Georgia	37,698	35,448	0	0	0	2,250
--	Guam	0	0	0	0	0	0
--	Hawaii	0	0	0	0	0	0
--	Idaho	0	0	0	0	0	0
8	Illinois	53,379	36,143	36	0	0	17,200
11	Indiana	39,045	37,540	0	0	0	1,505
22	Iowa	20,561	13,902	0	2,219	0	4,440
29	Kansas	10,576	5,350	0	0	0	5,226
16	Kentucky	30,188	29,946	0	0	0	242
9	Louisiana	46,189	42,310	0	0	0	3,879
43	Maine	347	347	0	0	0	0
44	Maryland	260	260	0	0	0	0
21	Massachusetts	25,696	24,402	0	0	0	1,294
18	Michigan	28,177	28,177	0	0	0	0
23	Minnesota	17,828	17,798	5	5	0	20
30	Mississippi	7,961	7,961	0	0	0	0
7	Missouri	65,725	63,269	5	18	0	2,433
36	Montana	1,907	1,907	0	0	0	0
35	Nebraska	2,184	34	0	0	0	2,150
42	Nevada	475	475	0	0	0	0
41	New Hampshire	504	504	0	0	0	0
3	New Jersey	151,584	144,514	5	0	0	7,065
38	New Mexico	1,165	25	0	0	0	1,140
24	New York	16,473	16,473	0	0	0	0
5	North Carolina	115,685	26,311	0	77,829	0	11,545
40	North Dakota	772	772	0	0	0	0
--	N Marianas	0	0	0	0	0	0
2	Ohio	186,800	83,073	30	0	0	103,697
28	Oklahoma	11,281	11,281	0	0	0	0
13	Oregon	35,847	25,327	0	70	0	10,450
10	Pennsylvania	43,023	41,652	9	0	1	1,361
14	Puerto Rico	34,406	23,617	10,789	0	0	0
45	Rhode Island	250	250	0	0	0	0
26	South Carolina	14,983	12,990	0	1,493	0	500
--	South Dakota	0	0	0	0	0	0
17	Tennessee	28,414	28,104	0	310	0	0
1	Texas	240,952	214,272	13	0	0	26,667
32	Utah	4,718	4,718	0	0	0	0
--	Vermont	0	0	0	0	0	0
--	Virgin Islands	0	0	0	0	0	0
19	Virginia	27,158	25,787	0	0	0	1,371
15	Washington	31,290	16,565	125	14,600	0	0
34	West Virginia	2,300	2,200	0	0	0	100
25	Wisconsin	16,336	15,636	0	700	0	0
--	Wyoming	0	0	0	0	0	0
Total		1,608,270	1,284,032	11,603	97,254	1	215,380

* UI = underground injection

TRI Releases in 1998 for RCRA TSDs and Solvent Recovery Facilities

Rank	State	Releases Total (in pounds)	Releases to Air (in pounds)	Releases to Water (in pounds)	Releases to Land (in pounds)	Releases by U/I* (in pounds)	Releases Off-site Land U/I* (in pounds)
9	Alabama	12,239,906	13,838	0	12,060,964	0	165,164
--	Alaska	0	0	0	0	0	0
--	Amer Samoa	0	0	0	0	0	0
36	Arizona	1,002	997	0	0	0	5
24	Arkansas	258,177	22,492	49	22,800	0	212,836
4	California	20,331,031	53,196	0	20,122,193	0	155,642
--	Colorado	0	0	0	0	0	0
21	Connecticut	739,191	0	0	0	0	739,191
--	Delaware	0	0	0	0	0	0
--	Distr of Col	0	0	0	0	0	0
29	Florida	27,949	18,109	0	9,840	0	0
31	Georgia	17,488	17,488	0	0	0	0
--	Guam	0	0	0	0	0	0
--	Hawaii	0	0	0	0	0	0
2	Idaho	31,653,505	12,465	0	31,641,000	0	40
3	Illinois	24,772,308	82,283	10	21,781,223	0	2,908,792
8	Indiana	12,400,396	38,667	1,345	1,257,263	0	11,103,121
37	Iowa	10	10	0	0	0	0
30	Kansas	24,677	17,113	0	0	0	7,564
16	Kentucky	2,714,849	41,604	15	1,100,084	0	1,573,146
15	Louisiana	4,457,817	1,583	2	3,803,510	530,351	122,371
--	Maine	0	0	0	0	0	0
38	Maryland	6	6	0	0	0	0
20	Massachusetts	1,236,452	4,986	5	0	0	1,231,461
10	Michigan	12,078,975	126,173	0	8,258,900	0	3,693,902
34	Minnesota	1,345	345	0	0	0	1,000
40	Mississippi	2	2	0	0	0	0
28	Missouri	29,121	11,552	75	17,494	0	0
--	Montana	0	0	0	0	0	0
25	Nebraska	209,731	16,003	0	168,694	0	25,034
19	Nevada	1,392,297	1,865	0	1,321,200	0	69,232
--	New Hampshire	0	0	0	0	0	0
17	New Jersey	2,352,848	25,429	741	0	0	2,326,678
32	New Mexico	5,990	5,990	0	0	0	0
14	New York	6,283,640	922	816	6,231,080	0	50,822
22	North Carolina	546,955	66,755	43	0	0	480,157
--	North Dakota	0	0	0	0	0	0
--	N Marianas	0	0	0	0	0	0
1	Ohio	77,698,463	304,834	1,028	50,522,000	17,841,000	9,029,601
12	Oklahoma	7,883,736	1,737	0	6,642,012	1,109,751	130,236
7	Oregon	12,843,315	4,265	0	12,829,199	0	9,851
13	Pennsylvania	6,395,670	5,452	556,760	3,940,300	0	1,893,158
23	Puerto Rico	324,772	264,929	0	0	0	59,843
35	Rhode Island	1,285	422	0	0	0	863
6	South Carolina	14,207,792	42,891	0	5,145,519	0	9,019,382
--	South Dakota	0	0	0	0	0	0
26	Tennessee	78,622	7,364	7,039	0	0	64,219
11	Texas	10,643,109	59,572	12,474	5,482,625	3,943,904	1,144,534
5	Utah	16,447,529	3,237	0	16,393,669	0	50,623
--	Vermont	0	0	0	0	0	0
--	Virgin Islands	0	0	0	0	0	0
33	Virginia	4,937	4,937	0	0	0	0
18	Washington	1,469,733	0	0	0	0	1,469,733
39	West Virginia	6	6	0	0	0	0
27	Wisconsin	41,253	26,286	0	0	0	14,967
--	Wyoming	0	0	0	0	0	0
Total		281,815,890	1,305,805	580,402	208,751,569	23,425,006	47,753,108

* U/I = underground injection

TRI Releases in 1998 for Top 25 Manufacturing Facilities

Rank	Facility Name	County	State	Releases Total (in pounds)	Releases to Air (in pounds)	Releases to Water (in pounds)	Releases to Land (in pounds)	Releases by UIJ* (in pounds)	Releases Off-site Land/UIJ* (in pounds)
1	MAGNESIUM CORP. OF AMERICA	TOOELE	UT	57,691,060	57,691,060	0	0	0	0
2	ASARCO INC.	LEWIS AND CLARK	MT	47,006,116	105,525	1,612	42,082,959	0	4,816,020
3	ASARCO INC. RAY COMPLEX/HAYDEN SMELTER	GILA	AZ	45,993,686	157,531	0	45,835,850	0	305
4	KENNECOTT UTAH COPPER SMELTER & REFY.	SALT LAKE	UT	34,495,395	314,180	8,305	33,602,000	0	570,910
5	ARMCO INC. BUTLER OPS. (RTE 8S)	BUTLER	PA	31,685,090	136,108	31,059,449	0	0	489,533
6	SOLUTIA INC.	ESCAMBIA	FL	27,138,858	197,061	1,717	0	26,937,419	2,661
7	DU PONT VICTORIA PLANT	VICTORIA	TX	24,841,060	450,754	2,942	16,119	24,371,111	134
8	PHIELPS DODGE HIDALGO INC.	HIDALGO	NM	22,776,815	281,020	12,495	22,483,300	0	0
9	PCS NITROGEN FERTILIZER L.P.	ASCENSION	LA	22,119,671	1,823,800	19,702,087	593,784	0	0
10	ZINC CORP. OF AMERICA MONACA SMELTER	BEAVER	PA	20,942,312	941,193	2,851	0	0	19,998,268
11	CYTEC INDS. INC. FORTIER PLANT	JEFFERSON	LA	19,941,111	250,413	48,583	0	19,605,900	36,215
12	NUCOR STEEL	MONTGOMERY	IN	19,559,326	37,008	36	0	0	19,522,282
13	BASF CORP.	BRAZORIA	TX	18,657,671	773,562	15,017,755	0	2,836,174	30,180
14	LENZING FIBERS CORP.	HAMBLEEN	TN	17,645,824	17,365,760	19,964	260,100	0	0
15	ROUGE STEEL CO.	WAYNE	MI	16,125,457	49,525	1,332	0	0	16,074,600
16	ELEMENTIS CHROMIUM L.P.	NUECES	TX	16,117,055	89,800	6,250	15,200,000	0	821,005
17	USS GARY WORKS	LAKE	IN	15,495,424	3,427,294	28,402	11,222,163	0	817,565
18	ELKEM METALS CO.	WASHINGTON	OH	14,667,177	3,954,177	773,000	9,864,000	0	76,000
19	BP CHEMICALS INC.	ALLEN	OH	13,887,526	563,709	0	0	13,323,037	780
20	NORTHWESTERN STEEL & WIRE CO.	WHITESIDE	IL	12,982,050	124,640	18,410	12,653,000	0	186,000
21	IMC-AGRICOLA CO. FAUSTINA PLANT	ST JAMES	LA	12,804,512	6,552,618	5,804,650	447,244	0	0
22	BP CHEMICALS INC. GREEN LAKE FACILITY	CALHOUN	TX	12,404,941	151,535	880	551	12,244,978	6,997
23	NUCOR-YAMATO STEEL CO.	MISSISSIPPI	AR	11,253,602	18,760	5	0	0	11,234,837
24	NATL. STEEL CORP., GREATLAKES DIV.	WAYNE	MI	11,185,664	314,891	41,350	0	0	10,829,423
25	ACORDIS CELLULOSIC FIBERS INC.	MOBILE	AL	11,098,200	10,662,000	16,200	420,000	0	0

* UIJ = underground injection

TRI Releases in 1998 for Top 25 Metal Mining Facilities

Rank	Facility Name	County	State	Releases Total (in pounds)	Releases to Air (in pounds)	Releases to Water (in pounds)	Releases to Land (in pounds)	Releases by U/I* (in pounds)	Releases Off-site Land U/I* (in pounds)
1	KENNECOTT UTAH COPPER MINE CONCENTRATORS & POWER PLANT	SALT LAKE	UT	405,388,216	25,576	14,735	405,344,455	0	3,450
2	BARRICK GOLDSTRIKE MINE	ELKO	NV	398,054,320	94,450	49,812	397,909,683	0	375
3	ASARCO INC. MISSION COMPLEX	PIMA	AZ	336,572,439	5,196	0	336,567,243	0	0
4	NEWMONT GOLD COMPANY, TWIN CREEKS MINE	HUMBOLDT	NV	269,670,836	108,106	2,615	269,560,113	0	2
5	RED DOG OPS.	NORTHWEST ARCTIC	AK	249,683,423	479,668	719	249,203,015	0	21
6	CHINO MINES CO.	GRANT	NM	193,978,208	311,490	6	193,666,712	0	0
7	BHP COPPER ROBINSON OPS.	WHITE PINE	NV	167,736,058	2,895	0	167,733,163	0	0
8	PHELPS DODGE MORENCI INC.	GREENLEE	AZ	141,722,082	84,634	0	141,637,448	0	0
9	CYPRUS SIERRITA CORP.	PIMA	AZ	129,943,620	19,570	10	129,924,040	0	0
10	CYPRUS MIAMI MINING CORP.	GILA	AZ	123,397,640	324,765	0	123,067,010	0	5,865
11	ASARCO INC., RAY COMPLEX/RAY OPS. MINE	PINAL	AZ	116,117,202	30,376	183	116,086,643	0	0
12	ECHO BAY MINERALS CO. - MCCOY COVE MINE	LANDER	NV	112,020,179	44,940	0	111,975,239	0	0
13	NEWMONT GOLD CO. CARLIN SOUTH AREA	EUREKA	NV	107,311,417	173,883	7,088	107,130,445	0	1
14	CYPRUS BAGDAD COPPER CORP.	YAVAPAI	AZ	93,486,877	5,317	0	93,481,560	0	0
15	NEWMONT GOLD CO. - LONE TREE MINE	HUMBOLDT	NV	53,827,084	53,069	113,750	53,660,265	0	0
16	KENNECOTT GREENS CREEK MINING CO.	JUNEAU	AK	53,091,272	16,956	616	24,049,700	29,024,000	0
17	BHP COPPER N.A. SAN MANUEL MINING	PINAL	AZ	51,951,624	89,985	0	51,860,626	0	1,013
18	GETCHELL GOLD CORP.	HUMBOLDT	NV	44,469,859	57,485	783	44,402,181	0	9,410
19	KENNECOTT BARNEY'S CANYON MINING CO.	SALT LAKE	UT	37,017,510	17,510	0	37,000,000	0	0
20	CORTEZ GOLD MINES, PIPELINE MINE, MILL #2	LANDER	NV	36,183,094	161,994	0	36,021,100	0	0
21	PHELPS DODGE TYRONE INC.	GRANT	NM	28,199,233	19,231	2	28,180,000	0	0
22	MONTANA TUNNELS MINING INC.	JEFFERSON	MT	25,955,175	18,175	0	25,937,000	0	0
23	GOLDEN SUNLIGHT MINES INC.	JEFFERSON	MT	25,790,909	122,909	0	25,668,000	0	0
24	NEWMONT GOLD CO. - CARLIN NORTH AREA	EUREKA	NV	24,815,732	33,271	0	24,782,461	0	0
25	KENNECOTT RIDGEWAY MINING CO.	FAIRFIELD	SC	23,017,000	24,000	0	22,993,000	0	0

* U/I = underground injection

TRI Releases in 1998 for Top 25 Coal Mining Facilities

Rank	Facility Name	County	State	Releases	Releases	Releases	Releases	Releases by	Releases
				Total	to Air	to Water	to Land	UIJ*	Off-site
				(in pounds)	(in pounds)	(in pounds)	(in pounds)	(in pounds)	Land UIJ*
1	SAN JUAN MINE	SAN JUAN	NM	3,113,000	0	0	3,113,000	0	0
2	BHP NAVAJO COAL CO.	SAN JUAN	NM	2,507,000	0	0	2,507,000	0	0
3	TRAPPER MINNING INC.	MOFFAT	CO	1,564,972	419	579	1,563,974	0	0
4	FREEMAN UNITED COAL MINING CO. INDUSTRY MINE	MC DONOUGH	IL	1,353,572	20	0	1,353,552	0	0
5	U.S. STEEL MINING CO. L.L.C. OAK GROVE SYSTEM	JEFFERSON	AL	1,030,087	87	10,000	975,000	45,000	0
6	FREEMAN UNITED COAL MINING CO. CROWN 3 MINE	MONTGOMERY	IL	1,026,345	10	0	1,026,335	0	0
7	GREEN VALLEY COAL CO.	NICHOLAS	WV	552,941	552,941	0	0	0	0
8	KEYSTONE PLANT # 1	MC DOWELL	WV	382,942	382,942	0	0	0	0
9	ELKHART MINE	LOGAN	IL	285,400	50	3,350	282,000	0	0
10	HOBET MINING INC.	BOONE	WV	212,948	191,653	21,295	0	0	0
11	CATENARY COAL CO.	KANAWHA	WV	174,510	157,059	17,451	0	0	0
12	SWAMP POODLE OPERATION LARSON ENTERPRISES INC.	CLEARFIELD	PA	171,616	0	0	171,616	0	0
13	BUFFALO COAL CO. INC., PREP PLANT	GRANT	WV	99,356	34,621	64,735	0	0	0
14	FALKIRK MINING CO.	MC LEAN	ND	75,220	0	0	75,220	0	0
15	KEPLER PROCESSING COMPANY-POCAHONTAS NO 51 PREP PLANT	WYOMING	WV	70,301	0	70,301	0	0	0
16	ELK RUN COAL CO., STOKER PLANT	BOONE	WV	67,326	0	3,511	63,815	0	0
17	MILLER CREEK MINE	GREENE	IN	56,426	0	0	56,426	0	0
18	OMAR MINING CO.	BOONE	WV	54,378	0	54,378	0	0	0
19	METTIKI COAL CORP.	GARRETT	MD	53,711	7,001	1,450	260	45,000	0
20	PATRIOT MINING CO. INC. - OSAGE MINE	MONONGALIA	WV	53,274	0	2,413	50,861	0	0
21	CEDAR CREEK MINE	SCHUYLER	IL	48,024	0	1,493	46,531	0	0
22	PEERLESS EAGLE PLANT NO. 1	NICHOLAS	WV	43,598	0	43,598	0	0	0
23	TDK COAL SALES INC.	JEFFERSON	PA	41,225	0	0	41,225	0	0
24	C & K COAL CO. - SMP #16703006	CLARION	PA	37,499	3	15	37,481	0	0
25	BAILEY / ENLOW FORK MINING COMPLEX	WASHINGTON	PA	37,040	36,850	0	190	0	0

* UIJ = underground injection

TRI Releases in 1998 for Top 25 Electric Utilities

Rank	Facility Name	County	State	Releases Total (in pounds)	Releases to Air (in pounds)	Releases to Water (in pounds)	Releases to Land (in pounds)	Releases by U/IJ* (in pounds)	Releases Off-site Land/U/IJ* (in pounds)
1	BOWEN STEAM ELECTRIC GENERATING PLANT	BARTOW	GA	19,500,943	18,052,259	18,589	1,430,077	0	18
2	AMERICAN ELECTRIC POWER, JOHN E. AMOS PLANT	PUTNAM	WV	18,998,464	16,709,646	7,865	791,455	0	1,489,498
3	ROXBORO STEAM ELECTRIC PLANT	PERSON	NC	17,290,877	15,148,574	7,803	2,134,500	0	0
4	DAYTON POWER & LIGHT CO. J.M. STUART STATION	ADAMS	OH	16,091,292	12,808,504	12,778	3,270,000	0	10
5	AMERICAN ELECTRIC POWER, MITCHELL PLANT	MARSHALL	WV	14,500,144	13,075,320	13,766	1,405,249	0	5,809
6	FIRSTENERGY, W.H. SAMMIS PLANT	JEFFERSON	OH	14,263,327	12,115,408	11,273	2,146	0	2,134,500
7	SCHERER STEAM ELECTRIC GENERATING PLANT	MONROE	GA	13,950,362	8,917,138	26,293	5,006,931	0	0
8	CARDINAL PLANT	JEFFERSON	OH	13,185,834	11,323,277	158,690	1,696,280	0	7,587
9	DETROIT EDISON MONROE POWER PLANT	MONROE	MI	12,608,459	8,058,508	11,622	4,538,272	0	57
10	PSI GIBSON GENERATING STATION	GIBSON	IN	12,395,359	8,128,647	0	4,266,710	0	2
11	BRANDON SHORES & WAGNER COMPLEX	ANNE ARUNDEL	MD	11,450,045	11,434,848	5,065	3,032	0	7,100
12	KENTUCKY UTILITIES CO. - GHENT STATION	CARROLL	KY	10,965,026	8,471,776	104,750	2,388,500	0	0
13	U.S. TVA PARADISE FOSSIL PLANT	MUHLENBERG	KY	9,850,910	9,095,350	80,550	675,010	0	0
14	GULF POWER CO. - PLANT CRIST	ESCAMBIA	FL	9,758,750	9,275,450	1,621	481,679	0	0
15	SEMINOLE GENERATING STATION	PUTNAM	FL	9,599,001	8,386,772	3,582	1,208,647	0	0
16	BALDWIN POWER STATION	RANDOLPH	IL	9,597,455	8,450,555	0	1,146,900	0	0
17	U.S. TVA KINGSTON FOSSIL PLANT	ROANE	TN	9,423,225	7,817,950	54,750	1,550,500	0	25
18	KEYSTONE STATION	ARMSTRONG	PA	9,402,073	8,730,088	17,385	654,600	0	0
19	AMERICAN ELECTRIC POWER, MOUNTAINEER PLANT	MASON	WV	9,220,895	8,052,903	4,454	1,162,478	0	1,060
20	EME HOMER CITY GENERATION L.P.	INDIANA	PA	9,194,422	8,856,289	13,633	324,500	0	0
21	AMERICAN ELECTRIC POWER CO. MUSKINGUM RIVER PLANT	WASHINGTON	OH	8,909,331	7,930,873	23,399	951,020	0	4,039
22	FLORIDA POWER CORP., CRYSTAL RIVER ENERGY COMPLEX	CITRUS	FL	8,793,477	8,440,499	18,900	333,900	0	178
23	OHIO VALLEY ELECTRIC CORP. KYGER CREEK STATION	GALLIA	OH	8,731,086	7,707,645	15,331	1,008,100	0	10
24	ALABAMA POWER CO. - PLANT BARRY	MOBILE	AL	8,586,564	5,637,540	21,099	2,927,925	0	0
25	TAMPA ELECTRIC CO. - GANNON STATION	HILLSBOROUGH	FL	8,131,499	8,000,790	2,600	128,109	0	0

* U/IJ = underground injection

TRI Releases in 1998 for Top 25 Petroleum Bulk Terminals

Rank	Facility Name	County	State	Releases	Releases	Releases	Releases	Releases by	Releases
				Total	to Air	to Water	to Land	UIJ*	Off-site
				(in pounds)	(in pounds)	(in pounds)	(in pounds)	(in pounds)	Land/UIJ*
1	OGDEN AVIATION FUELING CO. INC.	ARLINGTON	VA	112,730	970	111,760	0	0	0
2	KOCH PETROLEUM GROUP L.P.	NEW HANOVER	NC	106,838	106,832	6	0	0	0
3	NORTHEAST PETROLEUM NEW HAVEN TERMINAL	NEW HAVEN	CT	102,430	80,223	0	0	0	22,207
4	MOTIVA SEWAREN TERMINAL	MIDDLESEX	NJ	86,490	85,215	23	0	0	1,252
5	EQUILON CARSON TERMINAL	LOS ANGELES	CA	66,465	64,385	10	0	0	2,070
6	CLARK REFINING & MARKETING INC.	LAKE	IN	61,300	61,300	0	0	0	0
7	PHILLIPS PIPE LINE CO. - DENVER TERMINAL	ADAMS	CO	54,845	19,940	515	34,390	0	0
8	CITGO PETROLEUM CORP.	LAKE	IN	54,556	53,787	0	0	0	769
9	AMOCO PIPELINE CO. BEAUMONT TERMINAL	JEFFERSON	TX	52,020	52,020	0	0	0	0
10	PHILLIPS PIPE LINE CO. - PASADENA TERMINAL	HARRIS	TX	51,070	50,300	770	0	0	0
11	GULF OIL LTD. PTNR. NEW HAVEN TERMINAL	NEW HAVEN	CT	49,835	46,795	40	0	0	3,000
12	CLARK REFINING & MARKETING INC.	WAYNE	MI	48,100	48,100	0	0	0	0
13	NORTHVILLE INDS. CORP.	UNION	NJ	47,704	47,704	0	0	0	0
14	MOBIL OIL EAST PROVIDENCE TERMINAL	PROVIDENCE	RI	46,502	18,881	30	0	0	27,591
15	GULF OIL LTD. PTNR. CHELSEA TERMINAL	SUFFOLK	MA	45,275	41,098	40	0	0	4,137
16	PHILLIPS PIPE LINE CO. EAST ST. LOUIS TERMINAL	ST. CLAIR	IL	43,589	41,954	35	1,600	0	0
17	MOBIL OIL SPRINGFIELD TERMINAL	HAMPDEN	MA	42,034	13,723	0	0	0	28,311
18	TIDEWATER TERMINAL CO. SNAKE RIVER TERMINAL	FRANKLIN	WA	41,720	24,585	0	7,063	0	10,072
19	GLOBAL PETROLEUM CORP.	SUFFOLK	MA	40,936	40,608	328	0	0	0
20	ARCO PRODS. CO. HATHAWAY TERMINAL	LOS ANGELES	CA	40,888	40,888	0	0	0	0
21	GULF OIL LTD. PTNR., SOUTH PORTLAND TERMINAL	CUMBERLAND	ME	40,091	24,427	0	0	0	15,664
22	GLOBAL REVCO TERMINAL L.L.C.	SUFFOLK	MA	39,021	30,220	8,801	0	0	0
23	CARLOS R. LEFFLER INC. TUCKERTON FACILITY	BERKS	PA	38,136	38,136	0	0	0	0
24	COASTAL FUELS MARKETING INC. - PORT EVERGLADES TERM.	BROWARD	FL	37,905	36,870	0	1,035	0	0
25	TOSCO DISTRIBUTION WEST HONOLULU TERMINAL	HONOLULU	HI	37,140	37,140	0	0	0	0

* UIJ - underground injection

TRI Releases in 1998 for Top 25 Chemical Wholesale Facilities

Rank	Facility Name	County	State	Releases Total (in pounds)	Releases to Air (in pounds)	Releases to Water (in pounds)	Releases to Land (in pounds)	Releases by UII* (in pounds)	Releases Off-site Land/UII* (in pounds)
1	HUKILL CHEMICAL CORP.	CUYAHOGA	OH	126,834	20,124	0	0	0	106,710
2	NATL. REFRIGERANTS INC.	CUMBERLAND	NJ	112,079	112,079	0	0	0	0
3	CELANESE LTD. BAYPORT TERMINAL	HARRIS	TX	102,072	83,541	0	0	0	18,531
4	SOUTHCHEM INC.	DURHAM	NC	95,402	5,528	0	77,829	0	12,045
5	FARMLAND HYDRO L.P.	HILLSBOROUGH	FL	37,030	37,000	30	0	0	0
6	UNION CARBIDE CARIBE L.L.C.	PENUELAS	PR	24,640	13,851	10,789	0	0	0
7	UNOCAL AGRICULTURAL PRODS.	BENTON	WA	23,545	8,820	125	14,600	0	0
8	G. J. CHEMICAL	ESSEX	NJ	22,074	22,074	0	0	0	0
9	DOW CHEMICAL CO. LONG BEACH TERMINAL	LOS ANGELES	CA	21,530	21,530	0	0	0	0
10	COLEMAN CHEMICAL INC.	WILL	IL	19,907	2,957	0	0	0	16,950
11	ASHLAND DISTRIBUTION CO.	LOS ANGELES	CA	19,846	19,845	1	0	0	0
12	PRILLAMAN CHEMICAL CORP. MARTINSVILLE DIV.	HENRY	VA	17,497	16,376	0	0	0	1,121
13	CF INDS. INC. TAMPA TERMINAL	HILLSBOROUGH	FL	17,030	17,000	20	10	0	0
14	GREAT WESTERN CHEMICAL CO. - RICHMOND	CONTRA COSTA	CA	15,995	2,045	0	0	0	13,950
15	ASHLAND DISTRIBUTION CO.	COOK	IL	14,645	14,639	6	0	0	0
16	SUPERIOR SOLVENTS & CHEMICALS	ST LOUIS	MO	14,204	14,204	0	0	0	0
17	HCI CHEMTECH INDS. INC.	ST LOUIS	MO	13,795	13,795	0	0	0	0
18	ASHLAND DISTRIBUTION CO.	MECKLENBURG	NC	13,785	13,785	0	0	0	0
19	GREAT WESTERN CHEMICAL CO. - PORTLAND	MULTNOMAH	OR	13,235	2,785	0	0	0	10,450
20	HOUGHTON CHEMICAL CORP.	SUFFOLK	MA	13,181	13,181	0	0	0	0
21	TECH. SPRAY INC.	POTTER	TX	11,750	11,750	0	0	0	0
22	ASHLAND DISTRIBUTION CO.	SUMMIT	OH	11,483	11,483	0	0	0	0
23	CHEMCENTRAL/DALLAS	DALLAS	TX	11,446	11,446	0	0	0	0
24	VAN WATERS & ROGERS INC.	MULTNOMAH	OR	11,072	11,072	0	0	0	0
25	CHEMCENTRAL/PORTLAND	MULTNOMAH	OR	11,048	11,048	0	0	0	0

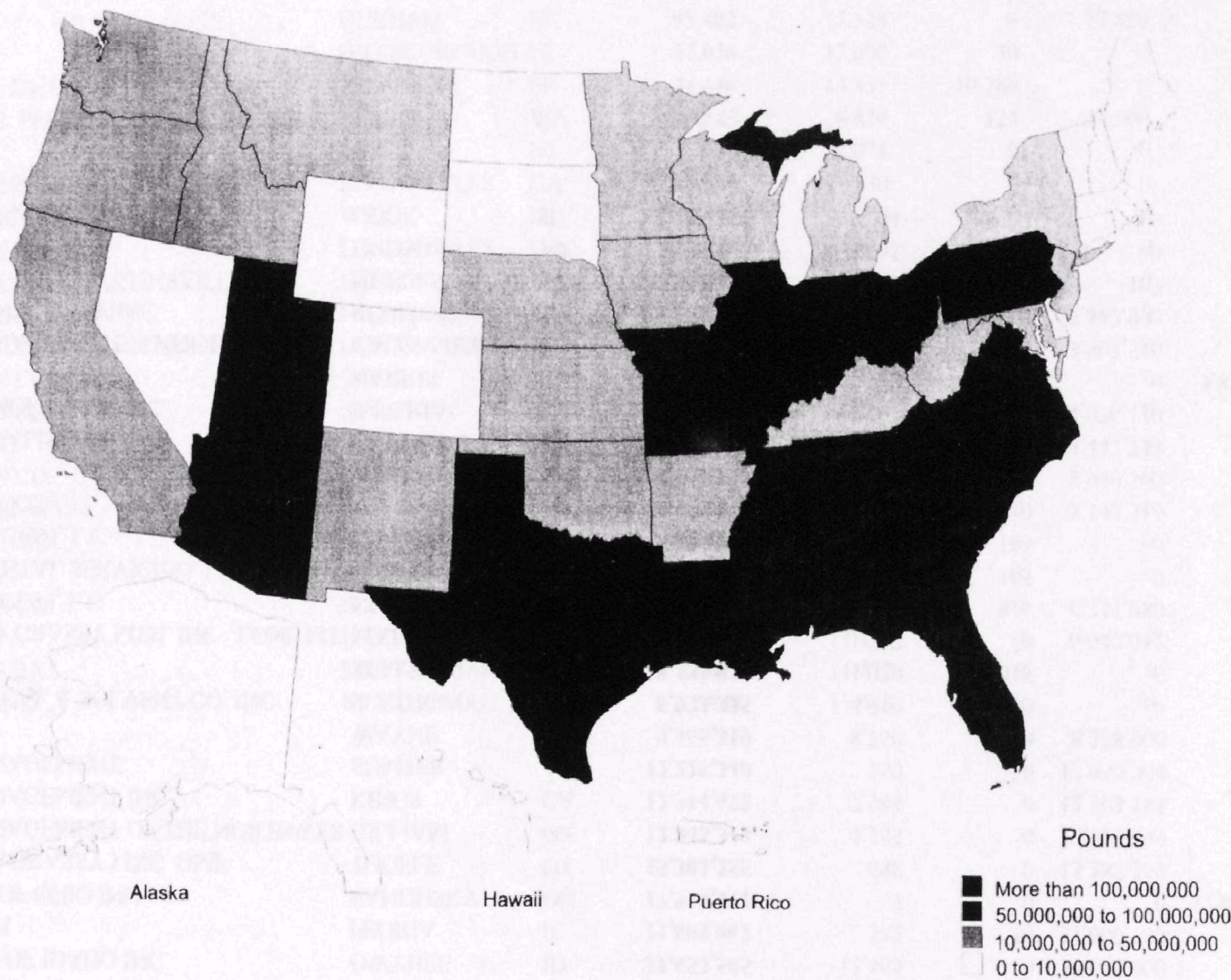
* UII = underground injection

TRI Releases in 1998 for TOP 25 RCRA TSDs and Solvent Recovery Facilities

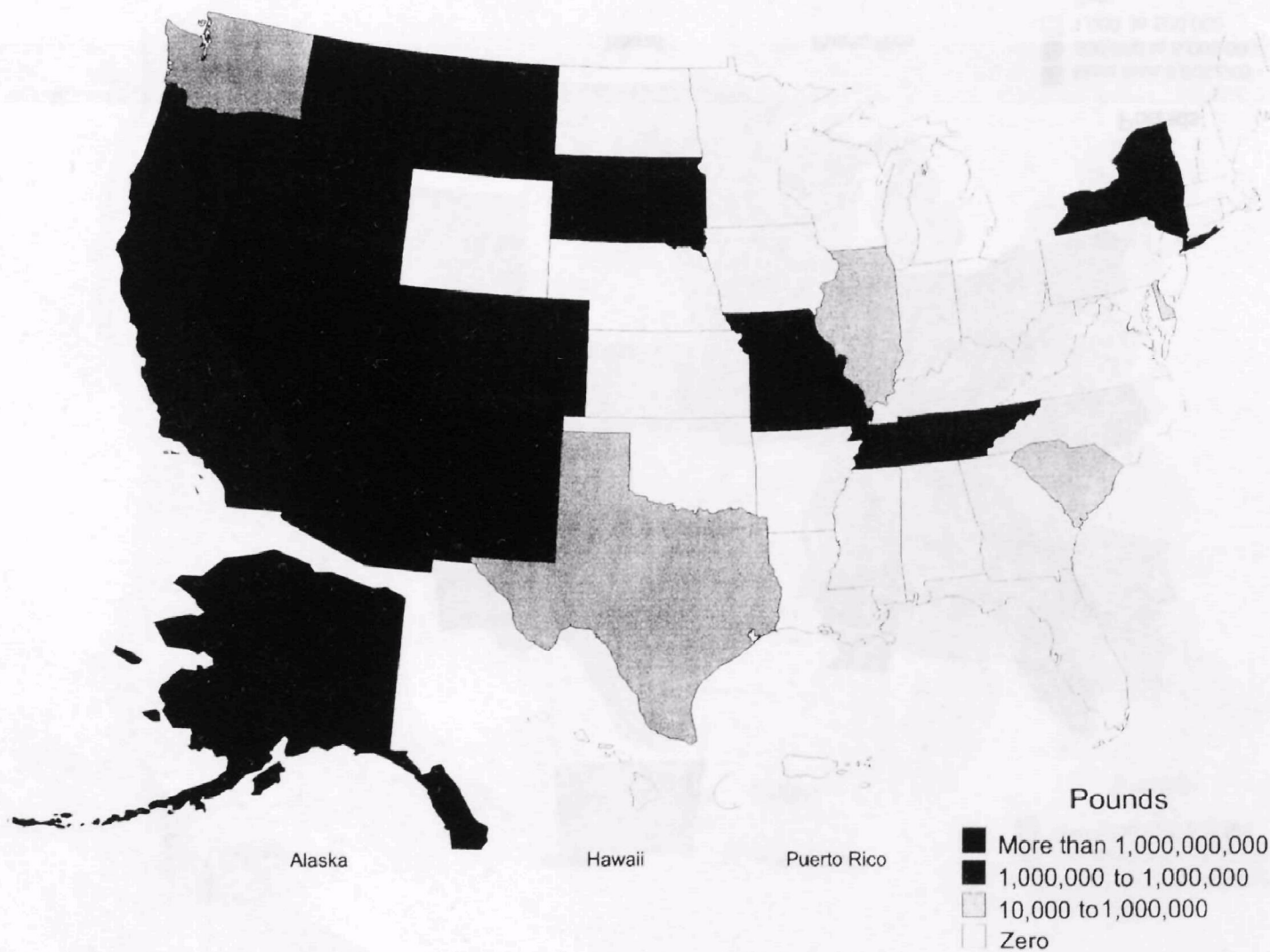
Rank	Facility Name	County	State	Releases	Releases	Releases	Releases	Releases by	Releases
				Total	to Air	to Water	to Land	UJI*	Off-site
				(in pounds)	(in pounds)	(in pounds)	(in pounds)	(in pounds)	Land/UJI*
1	ENVIROSAFE SERVICES OF OHIO INC.	LUCAS	OH	50,604,038	1,143	0	50,522,000	0	80,895
2	ENVIROSAFE SERVICES OF IDAHO INC.	OWYHEE	ID	31,653,505	12,465	0	31,641,000	0	40
3	PEORIA DISPOSAL CO. #1	PEORIA	IL	21,608,067	542	10	21,600,700	0	6,815
4	WASTE MANAGEMENT OF OHIO INC.	SANDUSKY	OH	17,910,271	7	0	0	17,841,000	69,264
5	SAFETY KLEEN (LONE & GRASSY) INC. GMF	TOOELE	UT	15,303,255	688	0	15,287,269	0	15,298
6	CHEMICAL WASTE MANAGEMENT OF THE NORTHWEST	GILLIAM	OR	12,843,313	4,263	0	12,829,199	0	9,851
7	CHEMICAL WASTE MANAGEMENT INC.	KINGS	CA	12,514,672	7,944	0	12,503,183	0	3,545
8	CHEMICAL WASTE MANAGEMENT	SUMTER	AL	12,228,340	350	0	12,060,964	0	167,026
9	WAYNE DISPOSAL INC.	WAYNE	MI	9,365,319	8,760	0	8,258,900	0	1,097,659
10	SOUTHEASTERN CHEMICAL & SOLVENT CO. INC.	SUMTER	SC	8,973,325	4,710	0	0	0	8,968,615
11	ENVIRITE OF OHIO INC.	STARK	OH	8,131,920	1,030	1,015	0	0	8,129,875
12	SAFETY-KLEEN (LONE & GRASSY MTN. INC. -LONE MT	MAJOR	OK	6,654,274	1,737	0	6,642,012	0	10,525
13	CWM CHEMICAL SERVICES L.L.C	NIAGARA	NY	6,273,289	13	816	6,231,080	0	41,380
14	HERITAGE ENVIRONMENTAL SERVICES L.L.C.	MARION	IN	6,003,523	795	165	0	0	6,002,563
15	CRYSTAL CLEAN SERVICES L.L.C.	MARION	IN	5,696,752	795	165	0	0	5,695,792
16	SAFETY-KLEEN (PINEWOOD)	SUMTER	SC	5,147,147	1,628	0	5,145,519	0	0
17	MILL SERVICE INC.	WESTMORELAND	PA	4,593,970	3,500	556,260	3,940,300	0	93,910
18	WASTE CONTROL SPECIALIST L.L.C.	ANDREWS	TX	4,447,683	4,952	0	4,442,731	0	0
19	SAFETY-KLEEN(WESTMORLAND) INC.	IMPERIAL	CA	4,076,304	161	0	4,076,110	0	33
20	DISPOSAL SYS. INC.	HARRIS	TX	4,075,282	189	0	0	3,832,444	242,649
21	CHEMICAL WASTE MANAGEMENT - LAKE CHARLES F	CALCASIEU	LA	3,815,842	295	0	3,803,510	0	12,037
22	SAFETY-KLEEN(BUTTONWILLOW)INC.	KERN	CA	3,550,975	8,050	0	3,542,900	0	25
23	ENCYCLE TEXAS INC.	NUECES	TX	2,910,366	3,265	1,260	107	0	2,905,734
24	S&W WASTE INC.	HUDSON	NJ	2,195,187	4,265	741	0	0	2,190,181
25	ENVIRITE OF ILLINOIS INC.	COOK	IL	2,077,414	94	0	0	0	2,077,320

* UJI = underground injection

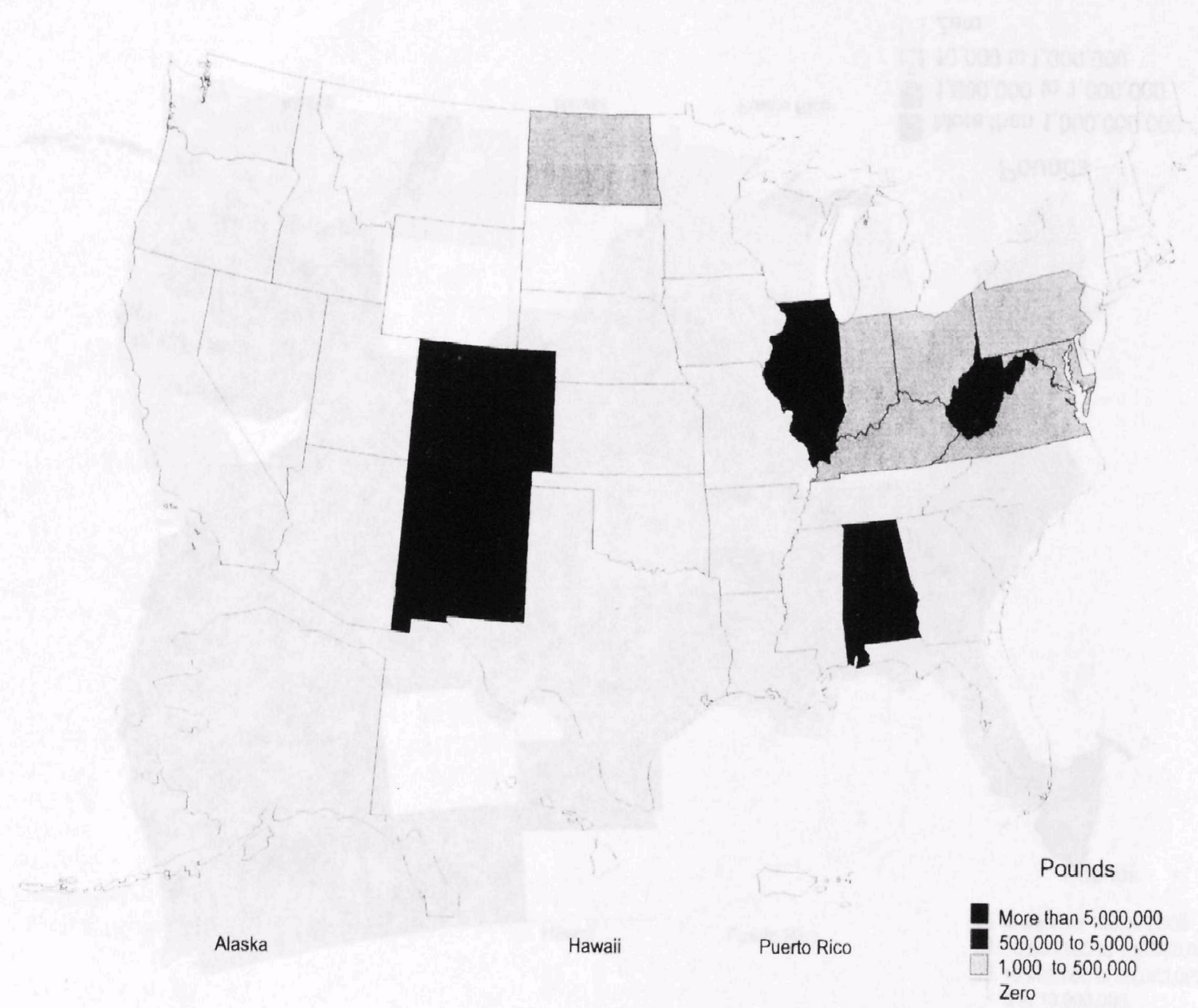
Releases by Manufacturers, by State, 1998



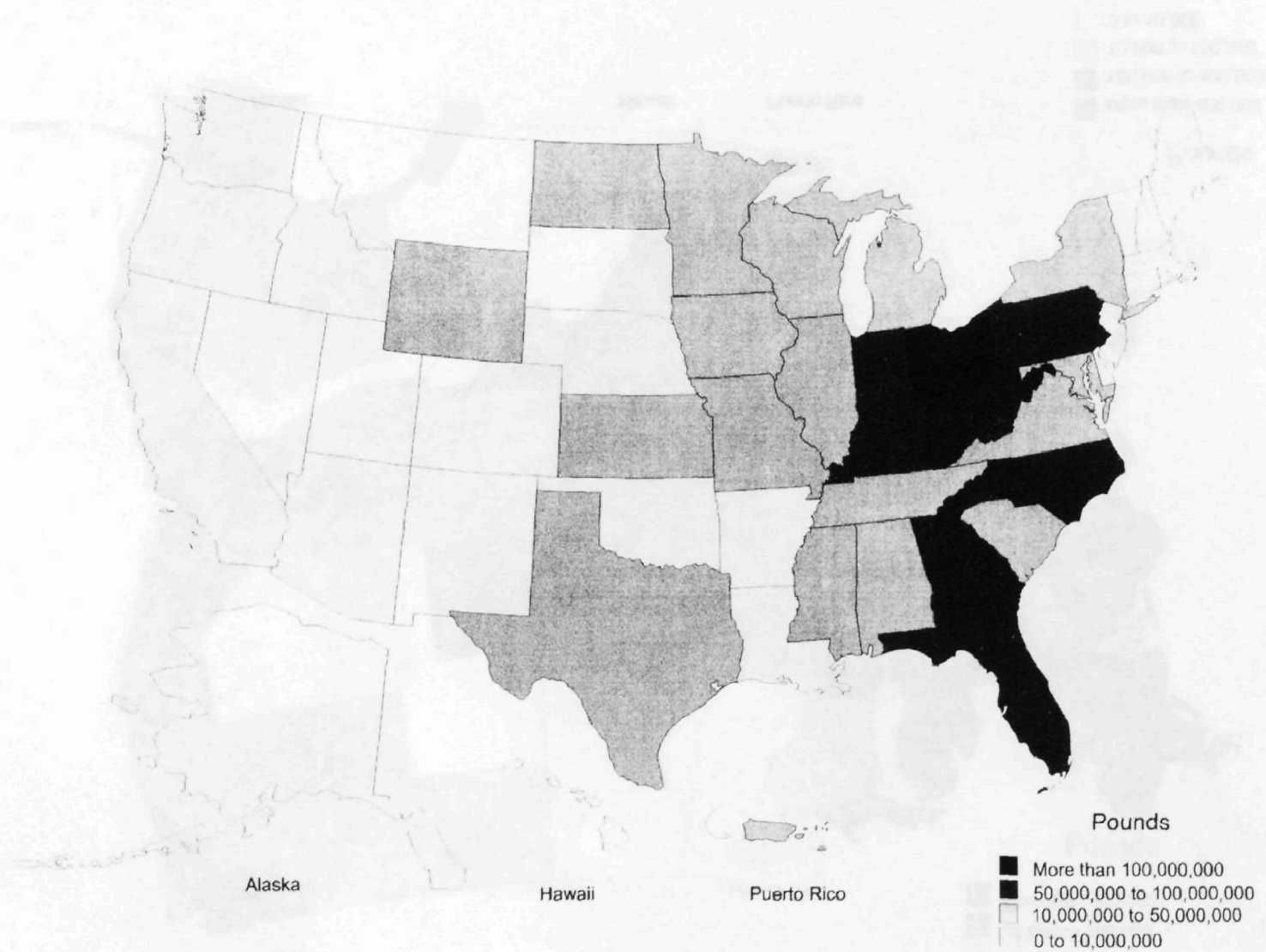
Releases by Metal Mines, by State, 1998



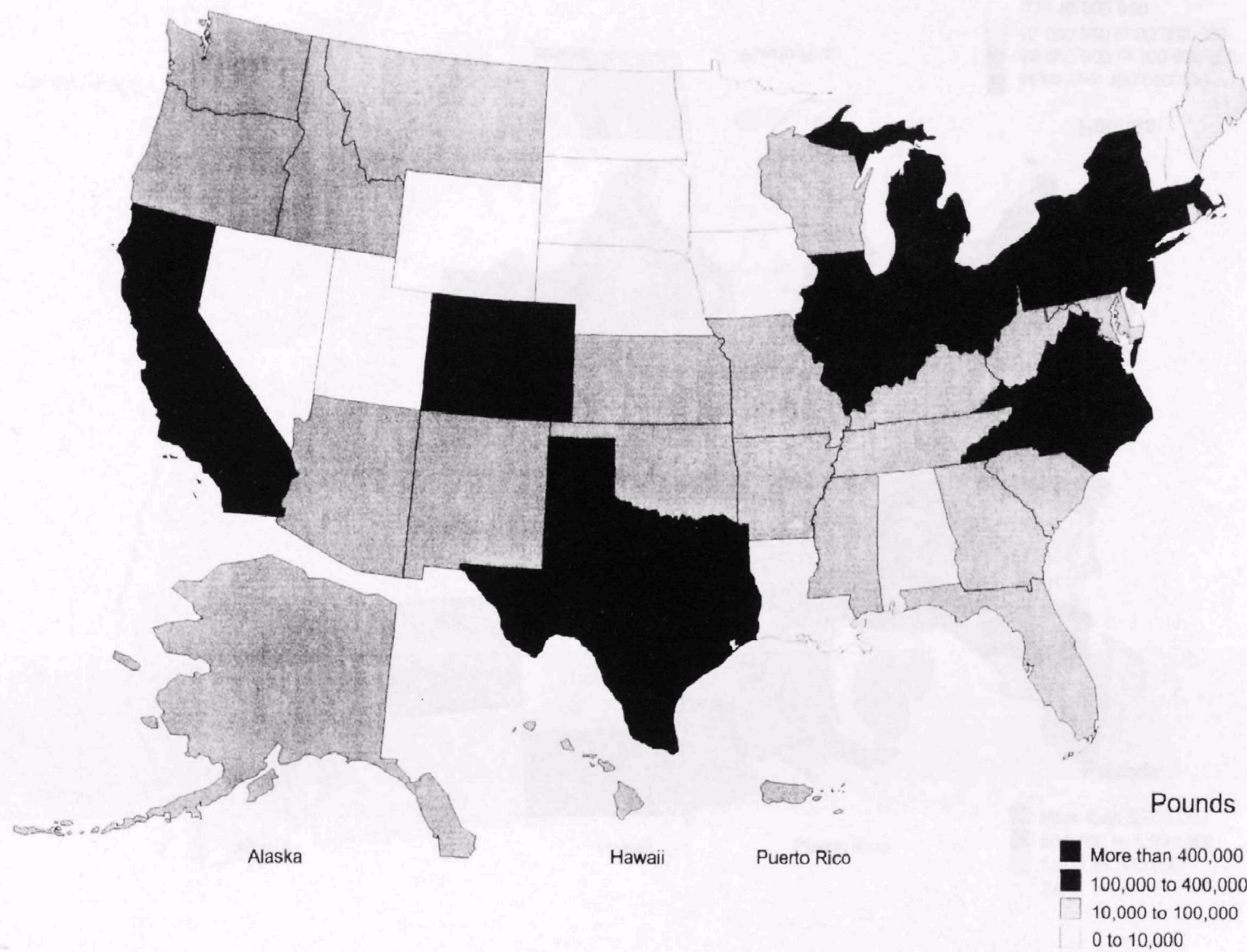
Releases by Coal Mines, by State, 1998



Releases by Electric Utilities, by State, 1998



Releases by Petroleum Bulk Terminals, by State, 1998



Pounds

- More than 400,000
- 100,000 to 400,000
- 10,000 to 100,000
- 0 to 10,000



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