

Quantities of TRI Chemicals in Waste, 2007

Waste Management Activity	2007	
	Pounds	Percent
Quantity Recycled	8,904,398,039	36.8
Quantity Recycled On-site	6,819,933,393	28.2
Quantity Recycled Off-site	2,084,464,646	8.6
Quantity Used for Energy Recovery	2,851,862,803	11.8
Quantity Used for Energy Recovery On-site	2,331,141,870	9.6
Quantity Used for Energy Recovery Off-site	520,720,933	2.2
Quantity Treated	8,177,697,530	33.8
Quantity Treated On-site	7,678,929,712	31.7
Quantity Treated Off-site	498,767,819	2.1
Total Quantity Disposed of or Otherwise Released	4,261,848,040	17.6
Total On-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills	587,047,770	2.4
Total Other On-site Disposal or Other Releases	2,988,621,200	12.4
Total Off-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills	437,274,641	1.8
Total Other Off-site Disposal or Other Releases	248,904,429	1.0
Total Production-related Waste Managed	24,195,806,412	100.0
Non-production-related Waste Managed	14,383,636	

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R Section 8.

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: All Industries

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
108-88-3 Toluene	1,207,010,318	23,724,416	1,230,734,735
7440-50-8 Copper	259,898,407	501,071,587	760,969,993
110-54-3 n-Hexane	584,738,015	2,914,281	587,652,296
-- Lead compounds	218,615,646	324,093,702	542,709,348
-- Zinc compounds	65,195,395	362,869,473	428,064,868
67-56-1 Methanol	392,145,916	7,396,564	399,542,480
98-82-8 Cumene	372,971,807	2,637,777	375,609,584
107-21-1 Ethylene glycol	296,194,917	72,279,797	368,474,713
7782-50-5 Chlorine	308,890,905	367,097	309,258,002
76-13-1 Freon 113	294,093,557	138	294,093,695
107-06-2 1,2-Dichloroethane	263,131,034	1,833,696	264,964,730
-- Copper compounds	124,566,720	132,734,321	257,301,041
1330-20-7 Xylene (mixed isomers)	187,562,817	21,632,654	209,195,471
107-13-1 Acrylonitrile	189,843,753	9,028	189,852,781
79-01-6 Trichloroethylene	135,226,510	1,409,442	136,635,952
75-09-2 Dichloromethane	119,891,438	11,743,777	131,635,215
7664-41-7 Ammonia	126,833,497	1,375,394	128,208,891
7440-47-3 Chromium	6,088,347	113,563,015	119,651,362
75-01-4 Vinyl chloride	115,087,825	2,951	115,090,776
7439-96-5 Manganese	21,341,986	92,518,880	113,860,866
Subtotal for Top 20 Chemicals	5,289,328,810	1,674,177,990	6,963,506,800
Total for all TRI Chemicals	6,819,933,393	2,084,464,646	8,904,398,039

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: Manufacturing* Industries

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
108-88-3 Toluene	1,196,166,506	23,386,206	1,219,552,712
7440-50-8 Copper	259,897,842	497,623,980	757,521,822
110-54-3 n-Hexane	583,671,058	2,751,295	586,422,352
-- Lead compounds	218,365,575	258,959,827	477,325,402
-- Zinc compounds	48,493,470	361,348,106	409,841,577
67-56-1 Methanol	389,544,474	7,269,124	396,813,598
98-82-8 Cumene	372,892,385	2,636,395	375,528,779
107-21-1 Ethylene glycol	286,233,140	51,347,070	337,580,210
7782-50-5 Chlorine	308,380,579	2,322	308,382,901
76-13-1 Freon 113	294,093,557	133	294,093,690
107-06-2 1,2-Dichloroethane	263,131,034	1,833,446	264,964,480
-- Copper compounds	123,095,005	122,042,230	245,137,235
1330-20-7 Xylene (mixed isomers)	169,498,915	21,469,136	190,968,052
107-13-1 Acrylonitrile	189,843,753	9,023	189,852,776
79-01-6 Trichloroethylene	134,373,660	1,400,282	135,773,942
7664-41-7 Ammonia	121,983,780	1,366,239	123,350,019
7440-47-3 Chromium	6,088,347	113,418,915	119,507,261
75-09-2 Dichloromethane	105,826,401	11,466,716	117,293,117
75-01-4 Vinyl chloride	115,087,825	2,701	115,090,526
7439-96-5 Manganese	21,282,921	92,426,879	113,709,800
Subtotal for Top 20 Chemicals	5,207,950,227	1,570,760,024	6,778,710,252
Total for all TRI Chemicals	6,638,722,838	1,965,790,521	8,604,513,359

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

* Manufacturing industries include NAICS codes 31-33 and "no codes" category.

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: Chemicals (NAICS 325)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
108-88-3 Toluene	754,519,695	10,476,640	764,996,335
98-82-8 Cumene	372,825,443	2,561,468	375,386,911
67-56-1 Methanol	364,578,225	4,501,292	369,079,518
76-13-1 Freon 113	294,093,557	0	294,093,557
107-06-2 1,2-Dichloroethane	263,130,915	1,833,445	264,964,360
107-21-1 Ethylene glycol	232,487,004	14,578,860	247,065,864
107-13-1 Acrylonitrile	189,841,894	9,023	189,850,917
75-01-4 Vinyl chloride	115,087,825	2,701	115,090,526
75-09-2 Dichloromethane	96,254,176	10,384,047	106,638,223
7664-41-7 Ammonia	102,421,014	199,195	102,620,209
-- Nitrate compounds	94,286,092	1,240	94,287,332
75-65-0 tert-Butyl alcohol	89,498,301	34,700	89,533,001
74-85-1 Ethylene	85,267,297	0	85,267,297
1330-20-7 Xylene (mixed isomers)	68,114,846	12,643,536	80,758,382
7782-50-5 Chlorine	46,616,951	4	46,616,955
71-43-2 Benzene	45,151,609	955,119	46,106,728
50-00-0 Formaldehyde	45,655,061	619	45,655,680
106-99-0 1,3-Butadiene	36,122,427	7,667,267	43,789,694
108-95-2 Phenol	41,093,703	209,463	41,303,166
7647-01-0 Hydrochloric acid	40,339,045	500	40,339,545
Subtotal for Top 20 Chemicals	3,377,385,081	66,059,120	3,443,444,201
Total for all TRI Chemicals	3,783,237,433	131,532,969	3,914,770,402

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: Primary Metals (NAICS 331)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
7440-50-8 Copper	240,536,662	175,030,281	415,566,943
-- Zinc compounds	39,235,616	266,072,335	305,307,951
7782-50-5 Chlorine	261,529,844	5	261,529,849
-- Copper compounds	115,921,064	56,542,839	172,463,902
-- Lead compounds	100,810,954	45,742,335	146,553,289
7550-45-0 Titanium tetrachloride	90,417,094	0	90,417,094
-- Chromium compounds	67,781,703	15,527,208	83,308,911
-- Manganese compounds	28,726,373	39,854,497	68,580,870
79-01-6 Trichloroethylene	48,321,893	235,594	48,557,487
7439-92-1 Lead	38,641,801	9,119,076	47,760,877
-- Nickel compounds	31,667,065	9,893,878	41,560,944
7439-96-5 Manganese	20,274,791	18,435,120	38,709,911
7429-90-5 Aluminum (fume or dust)	25,320,276	8,996,841	34,317,117
107-21-1 Ethylene glycol	29,553,075	152,561	29,705,636
7440-47-3 Chromium	4,533,799	16,489,631	21,023,431
7664-39-3 Hydrogen fluoride	19,949,104	46	19,949,150
108-10-1 Methyl isobutyl ketone	19,870,000	700	19,870,700
7440-66-6 Zinc (fume or dust)	399,533	19,221,107	19,620,640
7440-02-0 Nickel	6,863,140	12,627,449	19,490,589
7647-01-0 Hydrochloric acid	15,925,457	490,000	16,415,457
Subtotal for Top 20 Chemicals	1,206,279,245	694,431,501	1,900,710,747
Total for all TRI Chemicals	1,248,444,026	715,333,189	157,494,744

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: Paper Products (NAICS 322)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
108-88-3 Toluene	42,035,252	1,823,127	43,858,379
872-50-4 N-Methyl-2-pyrrolidone	80,848	1,063,312	1,144,160
110-82-7 Cyclohexane	567,600	0	567,600
107-21-1 Ethylene glycol	0	472,946	472,946
-- Barium compounds	0	381,872	381,872
110-54-3 n-Hexane	282,247	74,389	356,636
10049-04-4 Chlorine dioxide	257,388	0	257,388
7782-50-5 Chlorine	206,000	0	206,000
-- Manganese compounds	0	173,506	173,506
7429-90-5 Aluminum (fume or dust)	0	130,227	130,227
-- Zinc compounds	22,392	105,833	128,225
67-56-1 Methanol	80,864	8,680	89,544
1330-20-7 Xylene (mixed isomers)	40,107	28,229	68,336
-- Nickel compounds	0	60,286	60,286
7440-50-8 Copper	0	24,622	24,622
7440-02-0 Nickel	0	22,821	22,821
-- Vanadium compounds	0	15,536	15,536
7439-92-1 Lead	8	15,476	15,484
108-05-4 Vinyl acetate	11,782	3,031	14,813
-- Lead compounds	0	12,851	12,851
Subtotal for Top 20 Chemicals	43,584,488	4,416,744	48,001,232
Total for all TRI Chemicals	43,619,417	4,438,717	48,058,134

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: Petroleum (NAICS 324)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
1330-20-7 Xylene (mixed isomers)	89,550,699	376,728	89,927,426
108-88-3 Toluene	41,607,704	373,114	41,980,818
107-21-1 Ethylene glycol	17,254,363	19,668,269	36,922,632
91-20-3 Naphthalene	27,230,976	95,887	27,326,863
95-63-6 1,2,4-Trimethylbenzene	22,411,921	47,884	22,459,805
100-41-4 Ethylbenzene	8,089,305	31,636	8,120,942
110-82-7 Cyclohexane	7,981,624	823	7,982,447
110-54-3 n-Hexane	7,204,850	596,769	7,801,620
71-43-2 Benzene	4,921,073	71,358	4,992,430
1313-27-5 Molybdenum trioxide	0	2,477,090	2,477,090
-- Nickel compounds	2,742	2,434,746	2,437,488
7664-41-7 Ammonia	2,131,855	5,147	2,137,002
111-42-2 Diethanolamine	1,439,254	0	1,439,254
1319-77-3 Cresol (mixed isomers)	400,925	528,444	929,369
-- Vanadium compounds	0	900,818	900,818
1344-28-1 Aluminum oxide (fibrous forms)	0	767,638	767,638
7440-62-2 Vanadium (except when contained in an alloy)	0	754,161	754,161
-- Cobalt compounds	293	518,520	518,813
-- Polycyclic aromatic compounds	209,607	106,515	316,122
-- Zinc compounds	3,769	229,217	232,986
Subtotal for Top 20 Chemicals	230,440,960	29,984,764	260,425,724
Total for all TRI Chemicals	231,125,790	30,662,053	261,787,843

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: Metal Mining (NAICS 2122)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
-- Zinc compounds	16,693,840	674,959	17,368,799
-- Copper compounds	1,471,715	8,048,134	9,519,849
-- Manganese compounds	8,792,125	24,667	8,816,792
7664-41-7 Ammonia	4,798,697	0	4,798,697
-- Nitrate compounds	2,546,388	0	2,546,388
-- Lead compounds	247,265	1,028,375	1,275,640
-- Cyanide compounds	1,118,503	0	1,118,503
-- Cadmium compounds	712,874	3,173	716,047
-- Nickel compounds	215,019	31,309	246,328
-- Vanadium compounds	175,668	0	175,668
7440-47-3 Chromium	0	87,600	87,600
-- Mercury compounds	51,031	20,631	71,662
-- Cobalt compounds	46,880	2,119	48,999
7439-96-5 Manganese	0	44,740	44,740
107-21-1 Ethylene glycol	0	44,033	44,033
-- Arsenic compounds	40,404	645	41,049
7439-92-1 Lead	0	39,409	39,409
-- Chromium compounds	769	31,998	32,767
-- Selenium compounds	28,830	2	28,832
-- Antimony compounds	12,130	3,812	15,942
Subtotal for Top 20 Chemicals	36,952,138	10,085,605	47,037,743
Total for all TRI Chemicals	36,971,532	10,096,346	47,067,878

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The Chemicals with Largest Total Recycling On-site and Off-site, 2007: Coal Mining (NAICS 2121)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
-- Chromium compounds	0	750	750
-- Cobalt compounds	0	750	750
-- Nickel compounds	0	750	750
-- Zinc compounds	0	750	750
-- Manganese compounds	0	250	250
7439-97-6 Mercury	0	0.0176	0.0176
Total for all TRI Chemicals	0	3,250	3,250

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: Electric Utilities (NAICS 2211)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
-- Nickel compounds	0	3,677,877	3,677,877
-- Chromium compounds	20,440	3,177,587	3,198,027
-- Copper compounds	0	2,507,872	2,507,872
-- Barium compounds	65,952	1,286,966	1,352,918
-- Manganese compounds	44,739	1,172,043	1,216,782
-- Zinc compounds	8,085	724,952	733,037
7782-50-5 Chlorine	0	278,741	278,741
-- Vanadium compounds	0	239,657	239,657
107-21-1 Ethylene glycol	0	238,865	238,865
7440-39-3 Barium	0	130,565	130,565
7440-50-8 Copper	0	119,066	119,066
-- Cobalt compounds	0	64,002	64,002
-- Lead compounds	2,804	53,417	56,221
-- Antimony compounds	0	36,743	36,743
7440-62-2 Vanadium (except when contained in an alloy)	0	29,689	29,689
7440-02-0 Nickel	0	28,184	28,184
-- Mixtures and other trade name products	0	28,135	28,135
7439-92-1 Lead	0	9,954	9,954
-- Mercury compounds	0	6,452	6,452
91-20-3 Naphthalene	0	2,832	2,832
Subtotal for Top 20 Chemicals	142,020	13,813,599	13,955,619
Total for all TRI Chemicals	142,020	13,816,097	13,958,117

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: Chemical Wholesale Distributors (NAICS 4246)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
1330-20-7 Xylene (mixed isomers)	5,443,593	12,873	5,456,466
108-88-3 Toluene	2,150,081	13,712	2,163,793
67-56-1 Methanol	1,473,372	27,851	1,501,223
108-10-1 Methyl isobutyl ketone	1,463,747	3,194	1,466,941
75-09-2 Dichloromethane	879,115	41,451	920,566
71-36-3 n-Butyl alcohol	610,007	0	610,007
7782-50-5 Chlorine	510,326	0	510,326
75-71-8 Dichlorodifluoromethane (CFC-12)	205,043	0	205,043
121-44-8 Triethylamine	182,533	0	182,533
110-54-3 n-Hexane	76,902	0	76,902
7664-41-7 Ammonia	51,020	9,062	60,082
76-14-2 Dichlorotetrafluoroethane (CFC-114)	58,855	0	58,855
68-12-2 N,N-Dimethylformamide	58,176	0	58,176
95-63-6 1,2,4-Trimethylbenzene	28,238	495	28,733
75-63-8 Bromotrifluoromethane (Halon 1301)	25,829	0	25,829
107-21-1 Ethylene glycol	12,618	12,690	25,308
7664-39-3 Hydrogen fluoride	23,770	0	23,770
-- Glycol ethers	3,762	13,407	17,169
100-42-5 Styrene	0	14,346	14,346
127-18-4 Tetrachloroethylene	2,376	9,692	12,068
Subtotal for Top 20 Chemicals	13,259,363	158,773	13,418,136
Total for all TRI Chemicals	13,282,267	159,066	13,441,333

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: Petroleum Terminals/Bulk Storage (NAICS 4247)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
108-88-3 Toluene	1,752,675	103,704	1,856,379
1330-20-7 Xylene (mixed isomers)	1,626,739	113,487	1,740,227
107-21-1 Ethylene glycol	0	1,476,520	1,476,520
110-54-3 n-Hexane	875,206	103,574	978,779
95-63-6 1,2,4-Trimethylbenzene	379,025	107,502	486,527
71-43-2 Benzene	319,865	56,820	376,685
100-41-4 Ethylbenzene	257,520	50,126	307,646
110-82-7 Cyclohexane	282,322	25,080	307,402
91-20-3 Naphthalene	102,521	68,691	171,212
98-82-8 Cumene	78,404	1,374	79,778
1634-04-4 Methyl tert-butyl ether	10,499	915	11,414
-- Polycyclic aromatic compounds	265	2,128	2,394
7439-92-1 Lead	0	1,113	1,113
-- Zinc compounds	0	280	280
7440-50-8 Copper	0	173	173
115-07-1 Propylene	150	9	159
71-36-3 n-Butyl alcohol	0	68	68
191-24-2 Benzo(g,h,i)perylene	40	14	54
7440-02-0 Nickel	0	28	28
-- Lead compounds	0	13	13
Subtotal for Top 20 Chemicals	5,685,232	2,111,619	7,796,851
Total for all TRI Chemicals	5,685,232	2,111,638	7,796,870

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2007: Hazardous Waste/Solvent Recovery (NAICS 562)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
-- Lead compounds	0	63,934,782	63,934,782
107-21-1 Ethylene glycol	9,819,367	18,939,559	28,758,926
872-50-4 N-Methyl-2-pyrrolidone	15,005,425	354,098	15,359,523
75-09-2 Dichloromethane	13,185,922	235,611	13,421,533
1330-20-7 Xylene (mixed isomers)	10,993,270	36,858	11,030,128
108-88-3 Toluene	6,941,028	220,713	7,161,741
127-18-4 Tetrachloroethylene	5,616,799	79,147	5,695,946
7440-50-8 Copper	0	2,845,490	2,845,490
7439-92-1 Lead	2,669,429	159,309	2,828,738
108-10-1 Methyl isobutyl ketone	2,729,554	250	2,729,804
67-56-1 Methanol	1,128,070	99,588	1,227,658
7440-36-0 Antimony	0	979,000	979,000
-- Nickel compounds	5,105	909,077	914,182
79-01-6 Trichloroethylene	852,432	9,160	861,592
108-90-7 Chlorobenzene	701,472	250	701,722
75-45-6 Chlorodifluoromethane (HCFC-22)	654,292	0	654,292
-- Glycol ethers	551,435	50,895	602,330
7440-02-0 Nickel	0	527,103	527,103
100-41-4 Ethylbenzene	370,313	5	370,318
71-36-3 n-Butyl alcohol	258,564	250	258,814
Subtotal for Top 20 Chemicals	71,482,477	89,381,144	160,863,621
Total for all TRI Chemicals	71,998,611	90,246,941	162,245,552

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: All Industries

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
67-56-1 Methanol	353,580,564	114,567,053	468,147,617
74-85-1 Ethylene	384,916,539	21,196,144	406,112,683
115-07-1 Propylene	240,484,683	26,073	240,510,755
108-88-3 Toluene	133,193,775	99,339,063	232,532,837
7664-41-7 Ammonia	167,417,175	58,703	167,475,878
1330-20-7 Xylene (mixed isomers)	84,928,616	70,780,569	155,709,185
7664-93-9 Sulfuric acid	108,801,407	0	108,801,407
108-95-2 Phenol	77,765,708	7,972,747	85,738,455
71-43-2 Benzene	58,543,876	4,695,871	63,239,747
100-42-5 Styrene	33,303,035	12,351,649	45,654,684
75-65-0 tert-Butyl alcohol	39,025,228	5,561,295	44,586,523
100-41-4 Ethylbenzene	33,122,996	10,839,859	43,962,855
110-54-3 n-Hexane	28,551,869	13,889,380	42,441,249
75-00-3 Chloroethane	36,872,134	23,011	36,895,145
75-56-9 Propylene oxide	34,300,881	1,460,473	35,761,354
79-10-7 Acrylic acid	27,833,540	2,517,742	30,351,281
75-07-0 Acetaldehyde	26,069,013	1,189,639	27,258,652
71-36-3 n-Butyl alcohol	18,674,482	7,794,885	26,469,367
108-10-1 Methyl isobutyl ketone	15,606,859	10,471,406	26,078,265
75-05-8 Acetonitrile	18,390,779	7,180,608	25,571,387
Subtotal for Top 20 Chemicals	1,921,383,157	391,916,170	2,313,299,327
Total for all TRI Chemicals	2,331,141,870	520,720,933	2,851,862,803

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Manufacturing* Industries

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
67-56-1 Methanol	353,039,869	99,743,716	452,783,585
74-85-1 Ethylene	384,892,539	21,196,144	406,088,683
115-07-1 Propylene	240,234,683	26,073	240,260,755
108-88-3 Toluene	132,726,382	65,982,151	198,708,533
7664-41-7 Ammonia	167,417,175	58,703	167,475,878
1330-20-7 Xylene (mixed isomers)	84,127,698	44,282,501	128,410,200
7664-93-9 Sulfuric acid	108,801,407	0	108,801,407
108-95-2 Phenol	77,765,703	7,442,457	85,208,160
71-43-2 Benzene	58,170,770	4,460,129	62,630,899
75-65-0 tert-Butyl alcohol	39,025,228	5,041,205	44,066,433
100-42-5 Styrene	33,303,035	10,245,140	43,548,175
100-41-4 Ethylbenzene	33,028,175	8,265,683	41,293,858
110-54-3 n-Hexane	28,263,050	11,509,466	39,772,516
75-00-3 Chloroethane	36,872,134	22,761	36,894,895
75-56-9 Propylene oxide	34,300,881	1,434,899	35,735,780
79-10-7 Acrylic acid	27,833,540	2,492,770	30,326,309
75-07-0 Acetaldehyde	26,068,996	1,189,634	27,258,630
71-36-3 n-Butyl alcohol	18,674,482	5,852,008	24,526,490
75-05-8 Acetonitrile	18,390,779	5,871,947	24,262,726
98-86-2 Acetophenone	22,506,988	504,488	23,011,476
Subtotal for Top 20 Chemicals	1,925,443,514	295,621,876	2,221,065,389
Total for all TRI Chemicals	2,326,178,037	410,726,762	2,736,904,799

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

* Manufacturing industries include NAICS Codes 31-33 and "no codes" category.

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Chemicals (NAICS 325)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
67-56-1 Methanol	120,159,475	94,179,890	214,339,365
74-85-1 Ethylene	170,160,621	21,196,134	191,356,755
115-07-1 Propylene	163,662,595	25,795	163,688,390
7664-93-9 Sulfuric acid	108,797,407	0	108,797,407
108-88-3 Toluene	25,716,797	53,579,076	79,295,873
108-95-2 Phenol	67,541,937	7,071,539	74,613,476
75-65-0 tert-Butyl alcohol	38,214,110	5,026,636	43,240,746
1330-20-7 Xylene (mixed isomers)	3,146,116	36,493,009	39,639,125
75-00-3 Chloroethane	36,872,134	22,761	36,894,895
71-43-2 Benzene	32,750,651	3,482,940	36,233,591
75-56-9 Propylene oxide	34,300,881	1,434,899	35,735,780
7664-41-7 Ammonia	33,444,522	54,528	33,499,050
100-42-5 Styrene	20,840,260	9,127,664	29,967,924
79-10-7 Acrylic acid	26,142,340	2,480,744	28,623,083
75-07-0 Acetaldehyde	24,650,930	1,168,562	25,819,492
78-87-5 1,2-Dichloropropane	22,768,796	879	22,769,675
98-86-2 Acetophenone	22,199,318	499,185	22,698,503
110-54-3 n-Hexane	11,321,595	11,190,600	22,512,195
107-06-2 1,2-Dichloroethane	20,172,605	63,963	20,236,568
110-82-7 Cyclohexane	15,236,490	4,693,446	19,929,936
Subtotal for Top 20 Chemicals	998,099,579	251,792,249	1,249,891,828
Total for all TRI Chemicals	1,241,383,467	361,145,216	1,602,528,683

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Primary Metals (NAICS 331)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
74-85-1 Ethylene	111,027,615	0	111,027,615
71-43-2 Benzene	18,634,177	8	18,634,185
115-07-1 Propylene	10,100,000	0	10,100,000
1330-20-7 Xylene (mixed isomers)	4,433,212	877,223	5,310,435
108-88-3 Toluene	3,745,481	460,452	4,205,933
-- Glycol ethers	3,129,607	206,189	3,335,796
71-36-3 n-Butyl alcohol	1,135,476	119,612	1,255,088
106-99-0 1,3-Butadiene	870,000	0	870,000
107-21-1 Ethylene glycol	855,197	7,310	862,507
100-41-4 Ethylbenzene	679,845	149,920	829,765
95-63-6 1,2,4-Trimethylbenzene	721,873	75,258	797,131
108-95-2 Phenol	488,237	79,413	567,650
108-10-1 Methyl isobutyl ketone	451,881	32,250	484,131
91-20-3 Naphthalene	315,245	15,817	331,062
1319-77-3 Cresol (mixed isomers)	253,481	11,189	264,670
872-50-4 N-Methyl-2-pyrrolidone	189,153	65,109	254,262
131-11-3 Dimethyl phthalate	110,795	130,365	241,160
67-56-1 Methanol	16,299	168,617	184,916
108-38-3 m-Xylene	108,939	37,018	145,957
-- Polychlorinated alkanes	0	120,820	120,820
Subtotal for Top 20 Chemicals	157,266,513	2,556,569	159,823,082
Total for all TRI Chemicals	157,494,744	2,628,066	160,122,810

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Paper Products (NAICS 322)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
67-56-1 Methanol	185,675,333	230,995	185,906,328
120-80-9 Catechol	4,009,604	241	4,009,845
108-88-3 Toluene	1,105,413	1,765,584	2,870,997
7664-41-7 Ammonia	1,529,250	500	1,529,750
75-07-0 Acetaldehyde	1,418,066	72	1,418,138
108-95-2 Phenol	1,268,733	6,694	1,275,427
107-21-1 Ethylene glycol	380,078	17,005	397,083
50-00-0 Formaldehyde	310,978	4,099	315,077
1330-20-7 Xylene (mixed isomers)	1,600	266,120	267,720
1319-77-3 Cresol (mixed isomers)	176,425	0	176,425
110-54-3 n-Hexane	24,603	92,548	117,151
91-20-3 Naphthalene	59,174	0	59,174
-- Polycyclic aromatic compounds	30,272	0	30,272
108-10-1 Methyl isobutyl ketone	0	28,735	28,735
108-05-4 Vinyl acetate	0	23,523	23,523
-- Glycol ethers	3	21,009	21,012
79-10-7 Acrylic acid	0	12,026	12,026
78-92-2 sec-Butyl alcohol	10,246	1,270	11,516
100-41-4 Ethylbenzene	0	10,559	10,559
95-63-6 1,2,4-Trimethylbenzene	0	9,182	9,182
Subtotal for Top 20 Chemicals	195,999,778	2,490,162	198,489,940
Total for all TRI Chemicals	196,007,904	2,504,390	198,512,294

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Petroleum (NAICS 324)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
7664-41-7 Ammonia	132,391,066	790	132,391,856
74-85-1 Ethylene	96,542,005	10	96,542,015
115-07-1 Propylene	65,833,762	15	65,833,777
463-58-1 Carbonyl sulfide	6,444,158	0	6,444,158
71-43-2 Benzene	4,030,859	933,490	4,964,349
74-90-8 Hydrogen cyanide	2,580,625	0	2,580,625
-- Cyanide compounds	2,285,786	9	2,285,795
108-88-3 Toluene	1,691,225	491,563	2,182,789
110-54-3 n-Hexane	978,745	20,879	999,624
107-21-1 Ethylene glycol	0	811,724	811,724
1330-20-7 Xylene (mixed isomers)	205,756	317,015	522,772
100-41-4 Ethylbenzene	332,656	80,338	412,994
111-42-2 Diethanolamine	310,000	38,351	348,351
106-99-0 1,3-Butadiene	344,623	20	344,643
67-56-1 Methanol	292,442	20,474	312,916
95-63-6 1,2,4-Trimethylbenzene	146,551	86,636	233,187
110-82-7 Cyclohexane	197,227	5,071	202,298
108-95-2 Phenol	148,537	1,826	150,363
75-15-0 Carbon disulfide	140,799	32	140,831
91-20-3 Naphthalene	92,273	37,100	129,373
Subtotal for Top 20 Chemicals	314,989,095	2,845,344	317,834,439
Total for all TRI Chemicals	315,262,358	2,941,739	318,204,097

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Metal Mining (NAICS 2122)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
-- Polycyclic aromatic compounds	0	30	30
Total for all TRI Chemicals	0	30	30

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Coal Mining (NAICS 2121)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
Total for all TRI Chemicals	0	0	0

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Electric Utilities (NAICS 2211)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
-- Polycyclic aromatic compounds	896,919	1,272	898,192
91-20-3 Naphthalene	315,356	0	315,356
95-63-6 1,2,4-Trimethylbenzene	24,242	0	24,242
110-54-3 n-Hexane	22,000	0	22,000
107-21-1 Ethylene glycol	16,000	0	16,000
1330-20-7 Xylene (mixed isomers)	11,208	0	11,208
191-24-2 Benzo(g,h,i)perylene	6,422	16	6,438
108-88-3 Toluene	3,738	0	3,738
100-41-4 Ethylbenzene	3,736	0	3,736
67-56-1 Methanol	1,615	0	1,615
75-07-0 Acetaldehyde	17	0	17
108-95-2 Phenol	4	0	4
50-00-0 Formaldehyde	1	0	1
120-80-9 Catechol	1	0	1
1319-77-3 Cresol (mixed isomers)	1	0	1
Total for all TRI Chemicals	1,301,260	1,289	1,302,549

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Chemical Wholesale Distributors (NAICS 4246)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
108-88-3 Toluene	0	2,171,384	2,171,384
1330-20-7 Xylene (mixed isomers)	0	1,197,537	1,197,537
67-56-1 Methanol	0	844,896	844,896
-- Glycol ethers	0	366,038	366,038
108-10-1 Methyl isobutyl ketone	0	211,959	211,959
107-21-1 Ethylene glycol	0	191,331	191,331
100-42-5 Styrene	0	133,294	133,294
110-54-3 n-Hexane	0	107,415	107,415
95-63-6 1,2,4-Trimethylbenzene	0	102,789	102,789
75-09-2 Dichloromethane	0	98,100	98,100
71-36-3 n-Butyl alcohol	0	83,004	83,004
79-01-6 Trichloroethylene	0	64,591	64,591
127-18-4 Tetrachloroethylene	0	60,752	60,752
100-41-4 Ethylbenzene	0	58,550	58,550
68-12-2 N,N-Dimethylformamide	0	43,648	43,648
98-82-8 Cumene	0	21,603	21,603
91-20-3 Naphthalene	0	18,666	18,666
121-44-8 Triethylamine	0	15,192	15,192
75-05-8 Acetonitrile	0	12,719	12,719
872-50-4 N-Methyl-2-pyrrolidone	0	11,099	11,099
Subtotal for Top 20 Chemicals	0	5,814,567	5,814,567
Total for all TRI Chemicals	0	5,851,803	5,851,803

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Petroleum Terminals/Bulk Storage (NAICS 4247)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
115-07-1 Propylene	250,000	0	250,000
95-63-6 1,2,4-Trimethylbenzene	0	171,018	171,018
100-41-4 Ethylbenzene	0	147,114	147,114
108-88-3 Toluene	0	91,880	91,880
1330-20-7 Xylene (mixed isomers)	0	62,896	62,896
110-54-3 n-Hexane	0	49,653	49,653
91-20-3 Naphthalene	0	26,179	26,179
74-85-1 Ethylene	24,000	0	24,000
71-43-2 Benzene	0	12,562	12,562
107-21-1 Ethylene glycol	0	4,783	4,783
110-82-7 Cyclohexane	0	3,822	3,822
-- Polycyclic aromatic compounds	0	129	129
98-82-8 Cumene	0	102	102
191-24-2 Benzo(g,h,i)perylene	0	22	22
1634-04-4 Methyl tert-butyl ether	0	1	1
Total for all TRI Chemicals	274,000	570,161	844,161

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2007: Hazardous Waste/Solvent Recovery (NAICS 562)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
108-88-3 Toluene	463,655	31,086,714	31,550,369
1330-20-7 Xylene (mixed isomers)	789,710	25,216,606	26,006,316
67-56-1 Methanol	539,080	13,978,441	14,517,521
108-10-1 Methyl isobutyl ketone	0	4,609,797	4,609,797
75-09-2 Dichloromethane	0	3,194,200	3,194,200
110-54-3 n-Hexane	266,819	2,222,846	2,489,665
100-41-4 Ethylbenzene	91,085	2,366,814	2,457,899
127-18-4 Tetrachloroethylene	54,988	2,346,224	2,401,212
872-50-4 N-Methyl-2-pyrrolidone	164,183	2,231,592	2,395,775
100-42-5 Styrene	0	1,973,215	1,973,215
-- Glycol ethers	133,015	1,792,896	1,925,911
71-36-3 n-Butyl alcohol	0	1,848,150	1,848,150
107-21-1 Ethylene glycol	119,476	1,396,879	1,516,355
75-05-8 Acetonitrile	0	1,295,941	1,295,941
80-62-6 Methyl methacrylate	0	836,782	836,782
68-12-2 N,N-Dimethylformamide	146,944	542,535	689,479
110-82-7 Cyclohexane	0	674,916	674,916
71-43-2 Benzene	373,106	222,837	595,943
108-95-2 Phenol	0	528,389	528,389
75-65-0 tert-Butyl alcohol	0	519,923	519,923
Subtotal for Top 20 Chemicals	3,142,061	98,885,697	102,027,758
Total for all TRI Chemicals	3,388,544	103,451,604	106,840,148

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2007: All Industries

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7647-01-0 Hydrochloric acid	1,601,632,660	2,874,508	1,604,507,168
67-56-1 Methanol	1,055,489,429	83,431,747	1,138,921,176
74-85-1 Ethylene	565,415,772	16,915,973	582,331,745
7664-93-9 Sulfuric acid	567,473,006	30,317	567,503,324
7664-41-7 Ammonia	454,433,329	11,606,740	466,040,069
115-07-1 Propylene	337,468,688	8,698,922	346,167,610
-- Nitrate compounds	200,665,486	110,969,756	311,635,242
7697-37-2 Nitric acid	261,392,662	11,579,939	272,972,601
64-18-6 Formic acid	243,656,476	4,208,848	247,865,324
7664-39-3 Hydrogen fluoride	236,612,209	4,095,347	240,707,556
108-88-3 Toluene	195,524,372	20,960,332	216,484,704
7782-50-5 Chlorine	199,183,755	76,346	199,260,101
463-58-1 Carbonyl sulfide	144,581,734	0	144,581,734
110-54-3 n-Hexane	89,388,082	7,151,955	96,540,037
107-21-1 Ethylene glycol	63,786,467	21,115,088	84,901,555
50-00-0 Formaldehyde	74,030,428	5,842,906	79,873,334
1330-20-7 Xylene (mixed isomers)	68,410,937	9,032,849	77,443,786
75-15-0 Carbon disulfide	74,618,227	175,358	74,793,585
71-43-2 Benzene	60,260,006	2,964,401	63,224,406
106-99-0 1,3-Butadiene	61,312,549	1,197,695	62,510,243
Subtotal for Top 20 Chemicals	6,555,336,274	322,929,025	6,878,265,299
Total for all TRI Chemicals	7,678,929,712	498,767,819	8,177,697,530

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2007: Manufacturing* Industries

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7647-01-0 Hydrochloric acid	1,295,114,122	2,861,023	1,297,975,145
67-56-1 Methanol	1,044,156,573	82,927,082	1,127,083,654
74-85-1 Ethylene	564,370,672	16,915,973	581,286,645
7664-41-7 Ammonia	337,904,064	11,487,877	349,391,941
115-07-1 Propylene	335,958,590	8,698,922	344,657,512
-- Nitrate compounds	197,285,851	108,729,020	306,014,872
7697-37-2 Nitric acid	243,630,258	11,520,668	255,150,926
64-18-6 Formic acid	243,196,495	4,198,047	247,394,542
108-88-3 Toluene	180,968,560	19,422,245	200,390,805
7782-50-5 Chlorine	198,476,637	75,812	198,552,449
7664-39-3 Hydrogen fluoride	177,280,034	4,089,272	181,369,306
463-58-1 Carbonyl sulfide	144,581,734	0	144,581,734
110-54-3 n-Hexane	83,873,674	7,101,541	90,975,215
107-21-1 Ethylene glycol	59,506,468	20,709,293	80,215,761
50-00-0 Formaldehyde	73,222,645	5,825,229	79,047,874
75-15-0 Carbon disulfide	74,318,921	172,916	74,491,837
7664-93-9 Sulfuric acid	74,421,276	24,908	74,446,184
1330-20-7 Xylene (mixed isomers)	58,735,771	8,089,442	66,825,213
106-99-0 1,3-Butadiene	60,369,373	1,197,125	61,566,497
71-43-2 Benzene	57,826,892	2,917,688	60,744,580
Subtotal for Top 20 Chemicals	5,505,198,610	316,964,082	5,822,162,692
Total for all TRI Chemicals	6,539,143,603	486,771,496	7,025,915,100

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

* Manufacturing industries include NAICS Codes 31-33 and "no codes" category.

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2007: Chemicals (NAICS 325)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7647-01-0 Hydrochloric acid	1,246,119,280	71,604	1,246,190,884
74-85-1 Ethylene	524,905,757	16,378,123	541,283,880
115-07-1 Propylene	273,087,747	1,930,055	275,017,801
67-56-1 Methanol	174,735,728	46,185,690	220,921,418
64-18-6 Formic acid	172,018,143	3,996,638	176,014,781
7782-50-5 Chlorine	146,847,114	15,827	146,862,941
-- Nitrate compounds	65,444,832	45,049,005	110,493,837
7697-37-2 Nitric acid	108,007,240	999,363	109,006,602
7664-41-7 Ammonia	101,756,346	3,873,491	105,629,837
108-88-3 Toluene	74,069,195	17,186,871	91,256,066
50-00-0 Formaldehyde	61,649,410	5,494,719	67,144,129
107-21-1 Ethylene glycol	49,079,510	13,063,922	62,143,432
106-99-0 1,3-Butadiene	58,565,088	1,193,957	59,759,044
107-06-2 1,2-Dichloroethane	51,459,849	2,949,108	54,408,958
108-31-6 Maleic anhydride	46,386,004	1,378,314	47,764,318
7664-93-9 Sulfuric acid	46,968,606	1,653	46,970,259
7550-45-0 Titanium tetrachloride	46,381,417	293,622	46,675,039
110-54-3 n-Hexane	42,789,469	3,045,560	45,835,029
79-10-7 Acrylic acid	37,132,989	5,954,031	43,087,020
75-15-0 Carbon disulfide	42,036,924	59,412	42,096,336
Subtotal for Top 20 Chemicals	3,369,440,648	169,120,963	3,538,561,611
Total for all TRI Chemicals	4,091,340,587	294,723,271	4,386,063,857

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2007: Primary Metals (NAICS 331)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7664-39-3 Hydrogen fluoride	119,350,242	865,751	120,215,992
7697-37-2 Nitric acid	48,076,929	2,013,714	50,090,643
7782-50-5 Chlorine	42,773,020	500	42,773,520
7647-01-0 Hydrochloric acid	23,661,890	2,766,610	26,428,500
7664-41-7 Ammonia	12,979,424	377,074	13,356,498
-- Nitrate compounds	3,191,449	9,792,643	12,984,092
7429-90-5 Aluminum (fume or dust)	3,365,569	3,420,450	6,786,019
108-95-2 Phenol	6,616,390	140,804	6,757,194
67-56-1 Methanol	411,942	6,322,764	6,734,706
7440-66-6 Zinc (fume or dust)	0	6,564,026	6,564,026
74-85-1 Ethylene	4,809,535	530,000	5,339,535
7632-00-0 Sodium nitrite	3,980,232	101,730	4,081,962
1330-20-7 Xylene (mixed isomers)	3,619,733	32,863	3,652,596
74-90-8 Hydrogen cyanide	3,001,600	0	3,001,600
71-43-2 Benzene	2,913,162	382	2,913,544
-- Polycyclic aromatic compounds	2,664,297	5,937	2,670,235
7664-93-9 Sulfuric acid	2,441,145	23,255	2,464,400
-- Cyanide compounds	2,024,560	187,256	2,211,816
872-50-4 N-Methyl-2-pyrrolidone	1,588,181	22,641	1,610,822
108-88-3 Toluene	1,209,752	73,401	1,283,153
Subtotal for Top 20 Chemicals	288,679,051	33,241,801	321,920,852
Total for all TRI Chemicals	300,229,594	33,743,202	333,972,796

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2007: Paper Products (NAICS 322)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
67-56-1 Methanol	848,884,931	27,168,617	876,053,548
64-18-6 Formic acid	66,157,968	7,468	66,165,436
10049-04-4 Chlorine dioxide	41,132,259	6,870	41,139,129
108-88-3 Toluene	30,685,814	701,940	31,387,754
7664-41-7 Ammonia	14,919,416	59,633	14,979,049
7647-01-0 Hydrochloric acid	8,156,495	0	8,156,495
7782-50-5 Chlorine	7,552,353	50,680	7,603,033
75-07-0 Acetaldehyde	7,013,675	135,689	7,149,364
7664-93-9 Sulfuric acid	4,234,260	0	4,234,260
50-00-0 Formaldehyde	3,189,335	115,072	3,304,407
108-95-2 Phenol	2,920,128	43,526	2,963,654
1330-20-7 Xylene (mixed isomers)	2,742,246	55,066	2,797,312
-- Nitrate compounds	1,929,496	28,817	1,958,313
110-54-3 n-Hexane	1,885,056	15,312	1,900,368
872-50-4 N-Methyl-2-pyrrolidone	1,011,672	446,842	1,458,514
107-21-1 Ethylene glycol	910,549	473,446	1,383,995
120-80-9 Catechol	1,028,808	7,173	1,035,981
108-10-1 Methyl isobutyl ketone	352,629	52,740	405,369
-- Glycol ethers	341,982	53,071	395,053
1319-77-3 Cresol (mixed isomers)	373,436	4,100	377,536
Subtotal for Top 20 Chemicals	1,045,422,508	29,426,062	1,074,848,570
Total for all TRI Chemicals	1,047,245,156	29,587,334	1,076,832,490

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2007: Petroleum (NAICS 324)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7664-41-7 Ammonia	163,279,582	412,608	163,692,190
463-58-1 Carbonyl sulfide	115,822,885	0	115,822,885
115-07-1 Propylene	61,856,883	6,727,667	68,584,550
110-54-3 n-Hexane	37,159,671	3,954,640	41,114,311
74-85-1 Ethylene	33,818,366	7,850	33,826,216
75-15-0 Carbon disulfide	29,582,664	767	29,583,431
108-88-3 Toluene	25,252,254	402,513	25,654,766
1330-20-7 Xylene (mixed isomers)	16,599,254	327,088	16,926,342
71-43-2 Benzene	15,771,434	1,067,137	16,838,571
7664-39-3 Hydrogen fluoride	11,919,254	1,000	11,920,254
108-95-2 Phenol	6,068,017	1,174,434	7,242,451
110-82-7 Cyclohexane	6,496,921	14,127	6,511,049
7664-93-9 Sulfuric acid	5,846,926	0	5,846,926
67-56-1 Methanol	3,983,502	505,703	4,489,205
7647-01-0 Hydrochloric acid	4,238,918	0	4,238,918
100-41-4 Ethylbenzene	3,544,466	212,388	3,756,853
91-20-3 Naphthalene	2,989,430	51,513	3,040,943
111-42-2 Diethanolamine	1,525,070	1,340,262	2,865,332
1319-77-3 Cresol (mixed isomers)	2,625,687	234,711	2,860,398
95-63-6 1,2,4-Trimethylbenzene	1,786,009	676,788	2,462,798
Subtotal for Top 20 Chemicals	550,167,194	17,111,197	567,278,391
Total for all TRI Chemicals	562,337,015	18,040,602	580,377,617

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The Chemicals with Largest Total Treated On-site and Off-site, 2007: Metal Mining (NAICS 2122)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7664-93-9 Sulfuric acid	65,319,788	0	65,319,788
-- Cyanide compounds	9,543,590	730	9,544,320
7632-00-0 Sodium nitrite	1,178,000	0	1,178,000
-- Nitrate compounds	102,400	1	102,401
7664-41-7 Ammonia	81,268	1,024	82,292
7782-50-5 Chlorine	67,502	0	67,502
7697-37-2 Nitric acid	25,800	0	25,800
7664-39-3 Hydrogen fluoride	3,800	0	3,800
74-90-8 Hydrogen cyanide	3,500	0	3,500
71-43-2 Benzene	0	14	14
-- Dioxin and dioxin-like compounds	0.0000013	0.0000000	0.0000013
Total for all TRI Chemicals	76,325,648	1,769	76,327,417

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The Chemicals with Largest Total Treated On-site and Off-site, 2007: Coal Mining (NAICS 2121)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7647-01-0 Hydrochloric acid	243,446	0	243,446
7664-93-9 Sulfuric acid	12,620	0	12,620
Total for all TRI Chemicals	256,066	0	256,066

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The Chemicals with Largest Total Treated On-site and Off-site, 2006: Electric Utilities (NAICS 2211)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7664-93-9 Sulfuric acid	394,655,199	0	394,655,199
7647-01-0 Hydrochloric acid	250,733,985	0	250,733,985
7664-41-7 Ammonia	84,829,991	742	84,830,733
7664-39-3 Hydrogen fluoride	61,915,301	0	61,915,301
74-85-1 Ethylene	19,807,440	0	19,807,440
115-07-1 Propylene	10,258,730	0	10,258,730
107-06-2 1,2-Dichloroethane	4,714,981	860	4,715,841
67-66-3 Chloroform	3,539,181	170	3,539,351
118-74-1 Hexachlorobenzene	3,318,065	10,191	3,328,256
87-68-3 Hexachloro-1,3-butadiene	2,865,308	7,890	2,873,198
74-87-3 Chloromethane	2,316,829	0	2,316,829
67-72-1 Hexachloroethane	2,016,160	10,043	2,026,203
-- Polycyclic aromatic compounds	1,921,601	51	1,921,651
106-99-0 1,3-Butadiene	1,919,426	859	1,920,285
7782-50-5 Chlorine	876,421	0	876,421
-- Nitrate compounds	514,000	0	514,000
75-09-2 Dichloromethane	472,032	0	472,032
-- Barium compounds	283,286	782	284,068
608-93-5 Pentachlorobenzene	152,631	0	152,631
75-35-4 Vinylidene chloride	124,526	0	124,526
Subtotal for Top 20 Chemicals	847,235,092	31,588	847,266,680
Total for all TRI Chemicals	847,704,257	34,182	847,738,439

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2007: Chemical Wholesale Distributors (NAICS 4246)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7664-41-7 Ammonia	793,667	84,700	878,367
7647-01-0 Hydrochloric acid	250,010	0	250,010
106-99-0 1,3-Butadiene	153,366	0	153,366
1330-20-7 Xylene (mixed isomers)	409	131,903	132,312
-- Glycol ethers	492	122,246	122,738
108-88-3 Toluene	1,183	106,756	107,939
67-56-1 Methanol	3,510	100,942	104,452
7697-37-2 Nitric acid	74,286	13,476	87,762
115-07-1 Propylene	81,295	0	81,295
75-09-2 Dichloromethane	1,980	63,834	65,814
108-10-1 Methyl isobutyl ketone	160	56,071	56,231
107-21-1 Ethylene glycol	1	42,349	42,350
80-62-6 Methyl methacrylate	0	37,982	37,982
7664-93-9 Sulfuric acid	32,829	0	32,829
7664-39-3 Hydrogen fluoride	28,952	680	29,632
-- Nitrate compounds	0	28,286	28,286
127-18-4 Tetrachloroethylene	0	16,838	16,838
75-21-8 Ethylene oxide	0	15,532	15,532
-- Diisocyanates	0	11,500	11,500
71-36-3 n-Butyl alcohol	2	10,699	10,701
Subtotal for Top 20 Chemicals	1,422,141	843,794	2,265,936
Total for all TRI Chemicals	1,438,820	898,108	2,336,927

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2007: Petroleum Terminals/Bulk Storage (NAICS 4247)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
108-88-3 Toluene	2,336,713	36,390	2,373,104
110-54-3 n-Hexane	1,793,365	34,389	1,827,754
1330-20-7 Xylene (mixed isomers)	1,707,782	35,167	1,742,948
115-07-1 Propylene	1,328,297	0	1,328,297
74-85-1 Ethylene	1,045,100	0	1,045,100
71-43-2 Benzene	947,787	12,012	959,800
95-63-6 1,2,4-Trimethylbenzene	580,943	11,484	592,427
106-99-0 1,3-Butadiene	389,000	570	389,570
100-41-4 Ethylbenzene	338,824	6,355	345,180
110-82-7 Cyclohexane	263,984	6,089	270,072
91-20-3 Naphthalene	66,200	3,612	69,811
1634-04-4 Methyl tert-butyl ether	69,095	28	69,123
98-82-8 Cumene	12,658	908	13,566
106-42-3 p-Xylene	13,000	0	13,000
67-56-1 Methanol	2,380	101	2,481
108-10-1 Methyl isobutyl ketone	410	67	477
-- Polycyclic aromatic compounds	319	84	403
78-92-2 sec-Butyl alcohol	5	340	345
107-21-1 Ethylene glycol	0	315	315
100-42-5 Styrene	28	42	70
Subtotal for Top 20 Chemicals	10,895,889	147,954	11,043,844
Total for all TRI Chemicals	10,895,947	148,024	11,043,972

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2007: Hazardous Waste/Solvent Recovery (NAICS 562)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7647-01-0 Hydrochloric acid	13,831,167	13,485	13,844,652
108-88-3 Toluene	12,216,593	1,390,831	13,607,424
67-56-1 Methanol	11,295,837	403,550	11,699,387
1330-20-7 Xylene (mixed isomers)	7,965,913	765,639	8,731,552
127-18-4 Tetrachloroethylene	4,907,616	833,292	5,740,908
75-09-2 Dichloromethane	3,592,143	2,069,846	5,661,989
-- Nitrate compounds	2,489,139	2,142,444	4,631,583
7664-39-3 Hydrogen fluoride	4,616,970	5,394	4,622,364
107-21-1 Ethylene glycol	4,223,848	330,547	4,554,395
7697-37-2 Nitric acid	4,057,326	15,458	4,072,784
75-21-8 Ethylene oxide	4,009,052	760	4,009,812
110-54-3 n-Hexane	3,715,682	11,991	3,727,673
75-05-8 Acetonitrile	3,501,947	16,519	3,518,466
7632-00-0 Sodium nitrite	2,662,617	17,540	2,680,157
108-10-1 Methyl isobutyl ketone	2,508,771	41,032	2,549,803
1336-36-3 Polychlorinated biphenyls (PCBs)	1,943,431	250,498	2,193,929
100-41-4 Ethylbenzene	1,905,979	113,890	2,019,869
71-36-3 n-Butyl alcohol	1,961,324	17,376	1,978,700
8001-58-9 Creosote	1,671,010	4,641	1,675,651
91-08-7 Toluene-2,6-diisocyanate	1,659,362	0	1,659,362
Subtotal for Top 20 Chemicals	94,735,725	8,444,732	103,180,457
Total for all TRI Chemicals	144,129,146	10,658,415	154,787,561

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at <http://www.epa.gov/tri/tridata>.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).