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**Quantities of TRI Chemicals in Waste, 2010**

Waste Management Activity	2009	
	Pounds	Percent
<b>Quantity Recycled</b>	<b>7,895,835,964</b>	<b>36</b>
Quantity Recycled On-site	6,013,743,276	28
Quantity Recycled Off-site	1,882,092,688	9
<b>Quantity Used for Energy Recovery</b>	<b>2,397,606,681</b>	<b>11</b>
Quantity Used for Energy Recovery On-site	1,969,016,517	9
Quantity Used for Energy Recovery Off-site	428,590,165	2
<b>Quantity Treated</b>	<b>7,555,509,736</b>	<b>35</b>
Quantity Treated On-site	7,098,912,653	33
Quantity Treated Off-site	456,597,083	2
<b>Total Quantity Disposed of or Otherwise Released</b>	<b>3,973,435,948</b>	<b>18</b>
Total On-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills	547,381,794	3
Total Other On-site Disposal or Other Releases	2,963,952,916	14
Total Off-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills	287,944,282	1
Total Other Off-site Disposal or Other Releases	174,156,956	1
<b>Total Production-related Waste Managed</b>	<b>21,822,388,329</b>	<b>100</b>
Non-production-related Waste Managed	13,593,151	

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2009: All Industries**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
108-88-3 Toluene	1,022,027,618	16,936,872	1,038,964,490
110-54-3 n-Hexane	551,138,032	3,245,738	554,383,769
-- Zinc compounds	67,853,159	419,526,754	487,379,913
7440-50-8 Copper	132,740,445	352,391,332	485,131,777
-- Lead compounds	241,500,200	237,435,522	478,935,722
67-56-1 Methanol	355,762,734	18,114,090	373,876,824
7782-50-5 Chlorine	310,161,955	382,362	310,544,317
107-06-2 1,2-Dichloroethane	307,941,432	1,436,846	309,378,278
76-13-1 Freon 113	293,713,608	128	293,713,736
107-21-1 Ethylene glycol	173,251,268	60,437,582	233,688,849
107-13-1 Acrylonitrile	203,079,666	120,000	203,199,666
-- Copper compounds	88,380,565	106,160,282	194,540,846
1330-20-7 Xylene (mixed isomers)	152,551,759	11,844,344	164,396,103
7664-41-7 Ammonia	148,882,251	2,406,880	151,289,131
75-65-0 tert-Butyl alcohol	147,365,173	142,667	147,507,840
7440-47-3 Chromium	4,683,484	139,805,425	144,488,908
98-82-8 Cumene	140,478,385	49,472	140,527,857
7439-96-5 Manganese	17,262,450	102,905,349	120,167,799
74-85-1 Ethylene	114,911,192	1,472	114,912,664
7440-02-0 Nickel	4,947,801	109,831,129	114,778,931
<b>Subtotal for Top 20 Chemicals</b>	<b>4,478,633,174</b>	<b>1,583,174,247</b>	<b>6,061,807,421</b>
<b>Total for all TRI Chemicals</b>	<b>6,013,743,276</b>	<b>1,882,092,688</b>	<b>7,895,835,964</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2010: Manufacturing\* Industries**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
108-88-3 Toluene	1,011,006,241	16,704,919	1,027,711,160
110-54-3 n-Hexane	550,320,881	3,154,459	553,475,340
7440-50-8 Copper	132,740,445	348,209,186	480,949,630
-- Zinc compounds	43,721,355	418,605,583	462,326,938
-- Lead compounds	240,681,853	174,747,999	415,429,852
67-56-1 Methanol	352,954,926	18,067,426	371,022,352
7782-50-5 Chlorine	309,633,702	3,216	309,636,918
107-06-2 1,2-Dichloroethane	307,941,431	1,436,846	309,378,278
76-13-1 Freon 113	293,713,608	128	293,713,736
107-13-1 Acrylonitrile	203,079,666	120,000	203,199,666
107-21-1 Ethylene glycol	168,041,123	27,010,170	195,051,294
-- Copper compounds	87,649,633	104,977,867	192,627,500
1330-20-7 Xylene (mixed isomers)	141,337,410	11,516,768	152,854,178
75-65-0 tert-Butyl alcohol	147,365,158	141,312	147,506,470
7664-41-7 Ammonia	144,216,533	2,309,351	146,525,884
7440-47-3 Chromium	4,683,484	139,707,107	144,390,591
98-82-8 Cumene	140,475,778	49,004	140,524,782
7439-96-5 Manganese	17,262,450	102,746,821	120,009,271
74-85-1 Ethylene	114,911,192	1,472	114,912,664
7440-02-0 Nickel	4,947,801	109,751,271	114,699,073
<b>Subtotal for Top 20 Chemicals</b>	<b>4,416,684,670</b>	<b>1,479,260,905</b>	<b>5,895,945,575</b>
<b>Total for all TRI Chemicals</b>	<b>5,587,688,217</b>	<b>1,514,702,056</b>	<b>7,102,390,273</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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.

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2010: Chemicals (NAICS 325)**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
108-88-3 Toluene	680,240,627	7,732,799	687,973,426
67-56-1 Methanol	333,268,735	10,421,192	343,689,927
107-06-2 1,2-Dichloroethane	307,941,430	1,436,833	309,378,263
76-13-1 Freon 113	293,713,608	0	293,713,608
107-13-1 Acrylonitrile	203,077,967	120,000	203,197,967
75-65-0 tert-Butyl alcohol	147,365,158	135,260	147,500,418
98-82-8 Cumene	140,354,540	14,218	140,368,758
107-21-1 Ethylene glycol	132,300,669	7,615,505	139,916,173
74-85-1 Ethylene	114,907,058	0	114,907,058
75-09-2 Dichloromethane	87,295,498	6,229,474	93,524,972
1330-20-7 Xylene (mixed isomers)	87,523,939	5,444,710	92,968,649
108-95-2 Phenol	61,635,518	136,015	61,771,533
7664-41-7 Ammonia	60,478,416	92,638	60,571,054
-- Nitrate compounds	59,997,406	88,161	60,085,567
7647-01-0 Hydrochloric acid	60,030,154	0	60,030,154
79-00-5 1,1,2-Trichloroethane	50,663,925	3,164,915	53,828,840
115-07-1 Propylene	51,726,005	0	51,726,005
71-43-2 Benzene	50,913,372	23,355	50,936,727
106-99-0 1,3-Butadiene	42,092,531	6,102,032	48,194,563
108-10-1 Methyl isobutyl ketone	35,635,163	6,129,659	41,764,823
<b>Subtotal for Top 20 Chemicals</b>	<b>3,001,161,720</b>	<b>54,886,764</b>	<b>3,056,048,484</b>
<b>Total for All TRI Chemicals</b>	<b>3,421,733,588</b>	<b>111,074,604</b>	<b>3,532,808,192</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2010: Primary Metals (NAICS 331)**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
-- Zinc compounds	38,726,838	350,505,109	389,231,946
7782-50-5 Chlorine	267,671,480	511	267,671,991
7440-50-8 Copper	122,670,097	107,573,438	230,243,535
-- Lead compounds	108,357,712	48,348,771	156,706,482
-- Copper compounds	81,215,241	49,939,323	131,154,564
-- Manganese compounds	22,412,598	61,322,528	83,735,126
-- Chromium compounds	66,321,230	14,053,364	80,374,594
7550-45-0 Titanium tetrachloride	64,308,434	0	64,308,434
79-01-6 Trichloroethylene	48,335,297	65,704	48,401,001
-- Nickel compounds	32,165,926	12,526,291	44,692,217
7647-01-0 Hydrochloric acid	39,492,172	2,435,499	41,927,671
7439-92-1 Lead	30,034,203	5,118,418	35,152,621
7439-96-5 Manganese	16,655,139	17,517,378	34,172,517
7440-02-0 Nickel	3,461,965	21,119,658	24,581,623
7440-47-3 Chromium	4,042,668	20,476,098	24,518,767
7429-90-5 Aluminum (fume or dust)	6,631,372	17,577,105	24,208,477
7440-66-6 Zinc (fume or dust)	3,065,139	16,381,531	19,446,670
108-10-1 Methyl isobutyl ketone	18,704,848	23,643	18,728,491
7664-41-7 Ammonia	13,120,790	1,345,151	14,465,941
107-21-1 Ethylene glycol	12,978,150	212,421	13,190,571
<b>Subtotal for Top 20 Chemicals</b>	<b>1,000,371,298</b>	<b>746,541,940</b>	<b>1,746,913,238</b>
<b>Total for all TRI Chemicals</b>	<b>1,040,260,216</b>	<b>758,579,456</b>	<b>1,798,839,672</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2010: Paper Products (NAICS 322)**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
108-88-3 Toluene	38,893,455	1,632,817	40,526,272
110-54-3 n-Hexane	2,563,587	52,420	2,616,007
110-82-7 Cyclohexane	409,574	0	409,574
0049-04-4 Chlorine dioxide	246,907	0	246,907
7782-50-5 Chlorine	210,000	0	210,000
7429-90-5 Aluminum (fume or dust)	0	174,641	174,641
-- Manganese compounds	0	113,954	113,954
-- Barium compounds	0	108,335	108,335
67-56-1 Methanol	66,586	15,643	82,229
1330-20-7 Xylene (mixed isomers)	38,769	28,380	67,149
872-50-4 N-Methyl-2-pyrrolidone	59,270	301	59,571
108-05-4 Vinyl acetate	20,310	5,488	25,798
7440-50-8 Copper	0	19,999	19,999
-- Zinc compounds	7,903	8,653	16,556
7664-41-7 Ammonia	13,253	396	13,649
-- Antimony compounds	11,220	0	11,220
-- Lead compounds	0	11,194	11,194
1163-19-5 Decabromodiphenyl oxide	10,666	0	10,666
79-10-7 Acrylic acid	0	7,058	7,058
-- Chromium compounds	0	6,681	6,681
<b>Subtotal for Top 20 Chemicals</b>	<b>42,551,500</b>	<b>2,185,960</b>	<b>44,737,460</b>
<b>Total for all TRI Chemicals</b>	<b>42,552,636</b>	<b>2,191,562</b>	<b>44,744,198</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2010: Petroleum (NAICS 324)**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
1330-20-7 Xylene (mixed isomers)	45,281,202	77,278	45,358,480
107-21-1 Ethylene glycol	16,691,592	14,862,911	31,554,503
108-88-3 Toluene	23,563,591	220,519	23,784,110
91-20-3 Naphthalene	15,264,227	29,286	15,293,513
95-63-6 1,2,4-Trimethylbenzene	12,200,558	7,201	12,207,759
110-82-7 Cyclohexane	4,874,300	1,431	4,875,731
110-54-3 n-Hexane	4,101,016	570,603	4,671,619
100-41-4 Ethylbenzene	3,236,138	6,756	3,242,894
-- Nickel compounds	103,577	2,606,204	2,709,781
71-43-2 Benzene	2,496,729	60,124	2,556,853
1313-27-5 Molybdenum trioxide	0	2,478,726	2,478,726
7664-41-7 Ammonia	2,063,696	66,702	2,130,398
111-42-2 Diethanolamine	1,313,231	750	1,313,981
-- Polycyclic aromatic compounds	1,266,725	12,643	1,279,367
-- Cobalt compounds	89,243	890,436	979,679
-- Vanadium compounds	288,144	613,696	901,840
7440-62-2 Vanadium (except when contained in an alloy)	0	796,219	796,219
-- Zinc compounds	4,933	583,885	588,818
85-01-8 Phenanthrene	562,739	4,008	566,747
-- Copper compounds	16,852	272,820	289,672
<b>Subtotal for Top 20 Chemicals</b>	<b>133,418,491</b>	<b>24,162,199</b>	<b>157,580,691</b>
<b>Total for all TRI Chemicals</b>	<b>134,333,900</b>	<b>24,581,574</b>	<b>158,915,474</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2010: Metal Mining (NAICS 2122)**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
-- Zinc compounds	24,126,164	423	24,126,587
7440-66-6 Zinc (fume or dust)	15,799,367	0	15,799,367
-- Cadmium compounds	6,294,255	2,000	6,296,255
7664-41-7 Ammonia	4,645,501	0	4,645,501
-- Nitrate compounds	3,479,334	0	3,479,334
-- Silver compounds	3,400,600	2	3,400,602
-- Manganese compounds	2,143,215	22,111	2,165,326
-- Lead compounds	816,497	670,157	1,486,654
-- Copper compounds	722,932	229,785	952,717
-- Cyanide compounds	554,721	0	554,721
-- Nickel compounds	177,441	194,790	372,231
7439-96-5 Manganese	0	149,295	149,295
-- Vanadium compounds	75,334	0	75,334
7440-47-3 Chromium	0	69,603	69,603
-- Mercury compounds	28,979	14,792	43,771
-- Cobalt compounds	29,800	4,000	33,800
-- Chromium compounds	430	26,522	26,952
-- Arsenic compounds	17,417	3	17,420
-- Selenium compounds	16,500	1	16,501
107-21-1 Ethylene glycol	0	14,902	14,902
<b>Subtotal for Top 20 Chemicals</b>	<b>62,328,487</b>	<b>1,398,386</b>	<b>63,726,872</b>
<b>Total for all TRI Chemicals</b>	<b>62,356,542</b>	<b>1,405,528</b>	<b>63,762,070</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The Chemicals with Largest Total Recycling On-site and Off-site, 2010: Coal Mining (NAICS 2121)**

<b>CAS Number Chemname</b>	<b>Quantity Recycled</b>	<b>Quantity Recycled</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
	<b>On-site Pounds</b>	<b>Off-site Pounds</b>	
107-21-1 Ethylene glycol	0	22,500	22,500
7664-41-7 Ammonia	2,264	0	2,264
<b>Total for all TRI Chemicals</b>	<b>2,264</b>	<b>22,500</b>	<b>24,764</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2010: Electric Utilities (NAICS 2211)**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
-- Chromium compounds	13,452	1,005,279	1,018,731
-- Copper compounds	0	845,197	845,197
-- Nickel compounds	0	530,910	530,910
-- Vanadium compounds	0	495,306	495,306
-- Manganese compounds	29,527	460,890	490,417
7440-39-3 Barium	0	399,555	399,555
-- Barium compounds	42,372	341,613	383,985
-- Zinc compounds	5,120	358,560	363,680
7782-50-5 Chlorine	0	292,557	292,557
107-21-1 Ethylene glycol	0	237,620	237,620
-- Lead compounds	1,843	56,083	57,926
-- Antimony compounds	0	24,713	24,713
7664-41-7 Ammonia	0	22,464	22,464
7440-62-2 Vanadium (except when contained in an alloy)	0	13,763	13,763
7440-50-8 Copper	0	11,149	11,149
91-20-3 Naphthalene	0	9,504	9,504
7439-92-1 Lead	0	8,403	8,403
7439-96-5 Manganese	0	8,057	8,057
-- Arsenic compounds	0	5,508	5,508
7440-66-6 Zinc (fume or dust)	0	5,342	5,342
<b>Subtotal for Top 20 Chemicals</b>	<b>92,314</b>	<b>5,132,472</b>	<b>5,224,786</b>
<b>Total for all TRI Chemicals</b>	<b>92,314</b>	<b>5,146,125</b>	<b>5,238,439</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2010: Chemical Wholesale Distributors (NAICS 4246)**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
7440-50-8 Copper	0	1,417,582	1,417,582
7782-50-5 Chlorine	528,253	0	528,253
76-14-2 Dichlorotetrafluoroethane (CFC-114)	164,882	0	164,882
108-88-3 Toluene	19,546	87,287	106,833
7664-41-7 Ammonia	17,953	75,065	93,018
75-71-8 Dichlorodifluoromethane (CFC-12)	87,760	0	87,760
1330-20-7 Xylene (mixed isomers)	6,891	54,226	61,117
121-44-8 Triethylamine	58,427	24	58,451
67-56-1 Methanol	13,706	44,050	57,756
108-10-1 Methyl isobutyl ketone	450	41,990	42,440
75-63-8 Bromotrifluoromethane (Halon 1301)	38,171	0	38,171
7439-92-1 Lead	0	26,926	26,926
75-09-2 Dichloromethane	0	23,439	23,439
107-21-1 Ethylene glycol	1,312	21,871	23,183
-- Glycol ethers	5,622	12,972	18,594
95-63-6 1,2,4-Trimethylbenzene	14,708	1,852	16,560
127-18-4 Tetrachloroethylene	0	14,678	14,678
100-41-4 Ethylbenzene	1,617	10,349	11,966
100-42-5 Styrene	0	11,762	11,762
71-36-3 n-Butyl alcohol	461	8,556	9,017
<b>Subtotal for Top 20 Chemicals</b>	<b>959,759</b>	<b>1,852,629</b>	<b>2,812,388</b>
<b>Total for all TRI Chemicals</b>	<b>964,788</b>	<b>1,853,955</b>	<b>2,818,743</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2010: Petroleum Terminals/Bulk Storage (NAICS 4247)**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
107-21-1 Ethylene glycol	0	2,073,607	2,073,607
108-88-3 Toluene	633,277	101,479	734,756
1330-20-7 Xylene (mixed isomers)	488,860	110,359	599,219
110-54-3 n-Hexane	519,233	37,140	556,373
95-63-6 1,2,4-Trimethylbenzene	169,970	62,231	232,201
1634-04-4 Methyl tert-butyl ether	228,978	691	229,669
71-43-2 Benzene	180,007	26,821	206,829
100-41-4 Ethylbenzene	107,494	42,715	150,209
110-82-7 Cyclohexane	114,134	1,301	115,435
91-20-3 Naphthalene	28,149	71,538	99,687
-- Polycyclic aromatic compounds	6	11,812	11,818
-- Zinc compounds	0	10,119	10,119
98-82-8 Cumene	2,076	466	2,542
-- Lead compounds	0	2,023	2,023
191-24-2 Benzo(g,h,i)perylene	1	600	601
7439-92-1 Lead	0	319	319
1336-36-3 Polychlorinated biphenyls (PCBs)	0	29	29
-- Mercury compounds	0	24	24
115-07-1 Propylene	0	2	2
108-38-3 m-Xylene	0.0	0.3	0.3
<b>Subtotal for Top 20 Chemicals</b>	<b>2,472,185</b>	<b>2,553,278</b>	<b>5,025,463</b>
<b>Total for all TRI Chemicals</b>	<b>2,472,185</b>	<b>2,553,278</b>	<b>5,025,463</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2010: Hazardous Waste/Solvent Recovery (NAICS 562)**

<b>CAS Number Chemname</b>	<b>Quantity Recycled On-site Pounds</b>	<b>Quantity Recycled Off-site Pounds</b>	<b>Total Quantity Recycled On-site and Off-site Pounds</b>
-- Lead compounds	7	61,729,685	61,729,692
107-21-1 Ethylene glycol	5,062,423	30,594,182	35,656,605
872-50-4 N-Methyl-2-pyrrolidone	10,795,335	2,287,017	13,082,352
1330-20-7 Xylene (mixed isomers)	10,718,598	161,499	10,880,097
108-88-3 Toluene	10,366,554	42,972	10,409,526
75-09-2 Dichloromethane	6,416,114	98,016	6,514,130
127-18-4 Tetrachloroethylene	4,033,850	403,349	4,437,199
108-10-1 Methyl isobutyl ketone	3,281,923	2,202	3,284,125
67-56-1 Methanol	2,794,103	2,614	2,796,716
7440-50-8 Copper	0	2,181,155	2,181,155
75-05-8 Acetonitrile	1,908,864	1,913	1,910,777
7439-92-1 Lead	495,448	582,485	1,077,933
71-36-3 n-Butyl alcohol	1,033,049	393	1,033,442
7440-36-0 Antimony	0	870,521	870,521
-- Nickel compounds	1	700,975	700,976
75-45-6 Chlorodifluoromethane (HCFC-22)	608,890	0	608,890
-- Zinc compounds	0	552,069	552,069
-- Glycol ethers	512,406	37,243	549,649
100-41-4 Ethylbenzene	446,066	5,131	451,197
110-54-3 n-Hexane	297,824	2,141	299,965
<b>Subtotal for Top 20 Chemicals</b>	<b>58,771,456</b>	<b>100,255,562</b>	<b>159,027,018</b>
<b>Total for all TRI Chemicals</b>	<b>60,118,603</b>	<b>101,151,093</b>	<b>161,269,696</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: All Industries**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
67-56-1 Methanol	344,721,420	85,020,587	429,742,007
74-85-1 Ethylene	394,364,095	11,844,183	406,208,278
115-07-1 Propylene	258,130,680	221	258,130,901
108-88-3 Toluene	98,036,039	89,619,664	187,655,703
7664-41-7 Ammonia	141,916,663	4,132,763	146,049,426
1330-20-7 Xylene (mixed isomers)	72,003,875	52,958,563	124,962,438
71-43-2 Benzene	38,747,579	4,216,076	42,963,654
108-95-2 Phenol	29,096,888	6,143,223	35,240,111
98-86-2 Acetophenone	33,607,864	314,918	33,922,782
100-41-4 Ethylbenzene	25,483,210	8,355,836	33,839,046
100-42-5 Styrene	22,137,534	10,714,044	32,851,579
75-65-0 tert-Butyl alcohol	28,894,084	2,344,546	31,238,631
75-00-3 Chloroethane	30,429,711	69,083	30,498,794
110-54-3 n-Hexane	18,552,722	10,182,767	28,735,490
75-56-9 Propylene oxide	27,866,319	30,635	27,896,954
75-05-8 Acetonitrile	18,710,345	7,064,417	25,774,762
75-01-4 Vinyl chloride	19,674,755	5,600,651	25,275,406
79-10-7 Acrylic acid	22,230,094	2,216,816	24,446,910
110-82-7 Cyclohexane	16,471,751	7,108,667	23,580,418
-- Glycol ethers	9,217,923	11,331,964	20,549,887
<b>Subtotal for Top 20 Chemicals</b>	<b>1,650,293,552</b>	<b>319,269,626</b>	<b>1,969,563,177</b>
<b>Total for all TRI Chemicals</b>	<b>1,969,016,517</b>	<b>428,590,165</b>	<b>2,397,606,681</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: Manufacturing\* Industries**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
67-56-1 Methanol	344,031,265	74,061,000	418,092,264
74-85-1 Ethylene	394,364,095	11,844,183	406,208,278
115-07-1 Propylene	258,119,075	221	258,119,296
7664-41-7 Ammonia	141,914,970	4,122,051	146,037,021
108-88-3 Toluene	97,098,510	40,604,858	137,703,368
1330-20-7 Xylene (mixed isomers)	71,315,027	26,599,940	97,914,967
71-43-2 Benzene	38,613,523	4,146,903	42,760,427
108-95-2 Phenol	29,082,530	5,923,326	35,005,856
98-86-2 Acetophenone	33,607,864	314,918	33,922,782
75-65-0 tert-Butyl alcohol	28,808,210	2,136,781	30,944,991
100-42-5 Styrene	22,131,157	8,607,952	30,739,109
100-41-4 Ethylbenzene	25,433,912	5,085,870	30,519,782
75-00-3 Chloroethane	30,429,711	69,083	30,498,794
75-56-9 Propylene oxide	27,866,319	30,635	27,896,954
110-54-3 n-Hexane	18,418,899	7,836,044	26,254,943
75-01-4 Vinyl chloride	19,674,584	5,600,651	25,275,235
79-10-7 Acrylic acid	22,230,025	2,216,816	24,446,841
75-05-8 Acetonitrile	18,543,208	5,777,059	24,320,267
110-82-7 Cyclohexane	16,388,802	3,306,744	19,695,546
-- Glycol ethers	9,203,634	9,740,997	18,944,631
<b>Subtotal for Top 20 Chemicals</b>	<b>1,647,275,320</b>	<b>218,026,033</b>	<b>1,865,301,352</b>
<b>Total for all TRI Chemicals</b>	<b>1,964,411,293</b>	<b>307,355,591</b>	<b>2,271,766,883</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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.

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**The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: Chemicals (NAICS 325)**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
74-85-1 Ethylene	201,011,724	11,844,183	212,855,907
115-07-1 Propylene	188,931,629	198	188,931,827
67-56-1 Methanol	117,513,646	70,653,728	188,167,374
108-88-3 Toluene	13,882,907	33,437,094	47,320,001
98-86-2 Acetophenone	33,270,843	314,918	33,585,761
75-00-3 Chloroethane	30,429,711	58,083	30,487,794
75-65-0 tert-Butyl alcohol	27,996,986	2,133,844	30,130,830
75-56-9 Propylene oxide	27,866,319	30,635	27,896,954
7664-41-7 Ammonia	25,779,333	89,671	25,869,004
1330-20-7 Xylene (mixed isomers)	1,809,361	22,384,069	24,193,430
75-05-8 Acetonitrile	17,132,632	4,943,760	22,076,392
100-42-5 Styrene	14,093,565	7,964,687	22,058,252
75-01-4 Vinyl chloride	19,674,584	651	19,675,235
79-10-7 Acrylic acid	17,388,425	2,216,816	19,605,241
108-95-2 Phenol	13,323,125	5,639,960	18,963,086
71-43-2 Benzene	18,145,816	584,486	18,730,302
78-87-5 1,2-Dichloropropane	18,204,395	1,292	18,205,687
107-06-2 1,2-Dichloroethane	18,013,774	133,447	18,147,221
110-82-7 Cyclohexane	14,553,148	3,222,828	17,775,976
110-54-3 n-Hexane	10,259,329	7,364,837	17,624,166
<b>Subtotal for Top 20 Chemicals</b>	<b>829,281,251</b>	<b>173,019,187</b>	<b>1,002,300,438</b>
<b>Total for all TRI Chemicals</b>	<b>1,033,429,353</b>	<b>238,650,384</b>	<b>1,272,079,737</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: Primary Metals (NAICS 331)**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
74-85-1 Ethylene	48,127,784	0	48,127,784
71-43-2 Benzene	17,334,386	120	17,334,506
-- Glycol ethers	4,185,682	130,488	4,316,170
115-07-1 Propylene	4,208,200	0	4,208,200
1330-20-7 Xylene (mixed isomers)	3,662,405	386,455	4,048,860
108-88-3 Toluene	2,123,916	252,692	2,376,608
100-41-4 Ethylbenzene	1,497,922	44,287	1,542,209
107-21-1 Ethylene glycol	1,275,766	14,709	1,290,475
71-36-3 n-Butyl alcohol	1,103,711	47,910	1,151,621
95-63-6 1,2,4-Trimethylbenzene	952,840	99,069	1,051,909
106-99-0 1,3-Butadiene	800,000	0	800,000
108-95-2 Phenol	281,259	88,838	370,097
108-10-1 Methyl isobutyl ketone	346,000	11,347	357,347
1319-77-3 Cresol (mixed isomers)	195,149	35,010	230,159
108-38-3 m-Xylene	140,475	38,892	179,367
91-20-3 Naphthalene	132,773	28,895	161,668
872-50-4 N-Methyl-2-pyrrolidone	41,199	58,433	99,632
131-11-3 Dimethyl phthalate	88,637	7,878	96,515
67-56-1 Methanol	59,740	26,521	86,261
105-67-9 2,4-Dimethylphenol	37,195	9,653	46,848
<b>Subtotal for Top 20 Chemicals</b>	<b>86,595,039</b>	<b>1,281,196</b>	<b>87,876,235</b>
<b>Total for all TRI Chemicals</b>	<b>86,617,564</b>	<b>1,301,837</b>	<b>87,919,401</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: Paper Products (NAICS 322)**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
67-56-1 Methanol	191,462,627	162,317	191,624,944
120-80-9 Catechol	5,886,829	1,101	5,887,930
108-88-3 Toluene	1,067,522	1,755,990	2,823,512
75-07-0 Acetaldehyde	1,659,280	132	1,659,412
7664-41-7 Ammonia	1,630,828	1,100	1,631,928
108-95-2 Phenol	1,510,473	4,002	1,514,475
1330-20-7 Xylene (mixed isomers)	185,387	183,367	368,754
50-00-0 Formaldehyde	366,471	782	367,253
107-21-1 Ethylene glycol	329,624	0	329,624
1319-77-3 Cresol (mixed isomers)	270,512	0	270,512
108-10-1 Methyl isobutyl ketone	84,348	50,350	134,698
110-54-3 n-Hexane	13,884	96,886	110,770
100-41-4 Ethylbenzene	78,454	16,412	94,866
108-05-4 Vinyl acetate	0	37,746	37,746
95-63-6 1,2,4-Trimethylbenzene	0	22,477	22,477
-- Polycyclic aromatic compounds	12,840	0	12,840
-- Glycol ethers	6	10,126	10,132
141-32-2 Butyl acrylate	0	5,724	5,724
100-42-5 Styrene	3,541	2,110	5,651
7664-93-9 Sulfuric acid	3,727	0	3,727
<b>Subtotal for Top 20 Chemicals</b>	<b>204,566,352</b>	<b>2,350,621</b>	<b>206,916,973</b>
<b>Total for all TRI Chemicals</b>	<b>204,571,228</b>	<b>2,355,907</b>	<b>206,927,135</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2009: Petroleum (NAICS 324)**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
74-85-1 Ethylene	134,164,430	0	134,164,430
7664-41-7 Ammonia	114,121,174	309	114,121,483
115-07-1 Propylene	64,286,846	0	64,286,846
1319-77-3 Cresol (mixed isomers)	4,944,453	1,375	4,945,828
75-15-0 Carbon disulfide	4,298,495	37	4,298,532
-- Cyanide compounds	3,511,661	5	3,511,666
110-54-3 n-Hexane	3,101,056	6,449	3,107,505
74-90-8 Hydrogen cyanide	2,295,966	0	2,295,966
71-43-2 Benzene	1,425,719	37,896	1,463,615
463-58-1 Carbonyl sulfide	1,295,100	0	1,295,100
108-88-3 Toluene	593,985	392,728	986,713
107-21-1 Ethylene glycol	0	922,705	922,705
108-95-2 Phenol	762,358	913	763,271
1330-20-7 Xylene (mixed isomers)	57,490	444,595	502,085
106-99-0 1,3-Butadiene	398,977	15	398,992
-- Polycyclic aromatic compounds	152,524	77,019	229,544
100-41-4 Ethylbenzene	131,369	77,909	209,278
95-63-6 1,2,4-Trimethylbenzene	15,617	108,201	123,818
67-56-1 Methanol	111,836	10,632	122,468
91-20-3 Naphthalene	70,418	47,650	118,068
<b>Subtotal for Top 20 Chemicals</b>	<b>335,739,474</b>	<b>2,128,438</b>	<b>337,867,912</b>
<b>Total for all TRI Chemicals</b>	<b>335,884,347</b>	<b>2,159,428</b>	<b>338,043,775</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: Metal Mining (NAICS 2122)**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
1330-20-7 Xylene (mixed isomers)	0	120	120
-- Polycyclic aromatic compounds	0	13	13
<b>Total for All TRI Chemicals</b>	<b>0</b>	<b>133</b>	<b>133</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: Coal Mining (NAICS 2121)**

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

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: Electric Utilities (NAICS 2211)**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
-- Polycyclic aromatic compounds	430,691	2,082	432,773
91-20-3 Naphthalene	50,183	838	51,021
107-21-1 Ethylene glycol	19,000	0	19,000
191-24-2 Benzo(g,h,i)perylene	3,376	24	3,400
110-54-3 n-Hexane	1,580	0	1,580
100-41-4 Ethylbenzene	780	0	780
95-63-6 1,2,4-Trimethylbenzene	0	507	507
1330-20-7 Xylene (mixed isomers)	0	32	32
<b>Total for all TRI Chemicals</b>	<b>505,610</b>	<b>3,483</b>	<b>509,093</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: Chemical Wholesale Distributors (NAICS 4246)**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
108-88-3 Toluene	0	1,656,900	1,656,900
1330-20-7 Xylene (mixed isomers)	0	1,040,743	1,040,743
67-56-1 Methanol	0	576,715	576,715
-- Glycol ethers	0	281,592	281,592
75-09-2 Dichloromethane	0	166,421	166,421
100-42-5 Styrene	0	117,835	117,835
108-10-1 Methyl isobutyl ketone	0	114,784	114,784
111-42-2 Diethanolamine	0	111,249	111,249
95-63-6 1,2,4-Trimethylbenzene	0	106,969	106,969
107-21-1 Ethylene glycol	0	79,673	79,673
100-41-4 Ethylbenzene	0	58,052	58,052
71-36-3 n-Butyl alcohol	0	44,184	44,184
110-54-3 n-Hexane	0	39,410	39,410
67-66-3 Chloroform	0	26,142	26,142
121-44-8 Triethylamine	0	22,434	22,434
68-12-2 N,N-Dimethylformamide	0	13,703	13,703
872-50-4 N-Methyl-2-pyrrolidone	0	12,855	12,855
7664-41-7 Ammonia	0	10,707	10,707
127-18-4 Tetrachloroethylene	0	9,487	9,487
91-20-3 Naphthalene	0	9,362	9,362
<b>Subtotal for Top 20 Chemicals</b>	<b>0</b>	<b>4,499,217</b>	<b>4,499,217</b>
<b>Total for all TRI Chemicals</b>	<b>0</b>	<b>4,545,799</b>	<b>4,545,799</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: Petroleum Terminals/Bulk Storage (NAICS 4247)**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
95-63-6 1,2,4-Trimethylbenzene	0	103,319	103,319
100-41-4 Ethylbenzene	0	67,375	67,375
108-88-3 Toluene	0	42,133	42,133
1330-20-7 Xylene (mixed isomers)	0	28,727	28,727
107-21-1 Ethylene glycol	0	15,742	15,742
115-07-1 Propylene	11,605	0	11,605
91-20-3 Naphthalene	0	10,109	10,109
-- Polycyclic aromatic compounds	0	8,447	8,447
110-54-3 n-Hexane	0	6,787	6,787
71-43-2 Benzene	0	6,123	6,123
98-82-8 Cumene	0	2,683	2,683
92-52-4 Biphenyl	0	2,009	2,009
110-82-7 Cyclohexane	0	933	933
191-24-2 Benzo(g,h,i)perylene	0	414	414
108-05-4 Vinyl acetate	0	180	180
1634-04-4 Methyl tert-butyl ether	0	116	116
1336-36-3 Polychlorinated biphenyls (PCBs)	0	19	19
100-42-5 Styrene	0	10	10
67-56-1 Methanol	0	1	1
<b>Total for all TRI Chemicals</b>	<b>11,605</b>	<b>295,125</b>	<b>306,730</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2010: Hazardous Waste/Solvent Recovery (NAICS 562)**

<b>CAS Number Chemname</b>	<b>Quantity Used for Energy Recovery On-site Pounds</b>	<b>Quantity Used for Energy Recovery Off-site Pounds</b>	<b>Total Quantity Used for Energy Recovery On-site and Off-site Pounds</b>
108-88-3 Toluene	937,176	47,299,295	48,236,471
1330-20-7 Xylene (mixed isomers)	687,788	25,277,077	25,964,865
67-56-1 Methanol	690,155	10,382,872	11,073,027
110-82-7 Cyclohexane	82,949	3,794,019	3,876,968
71-36-3 n-Butyl alcohol	92,844	3,557,815	3,650,659
100-41-4 Ethylbenzene	48,518	3,141,233	3,189,751
127-18-4 Tetrachloroethylene	13,390	3,156,558	3,169,947
75-09-2 Dichloromethane	104,240	2,595,056	2,699,296
108-10-1 Methyl isobutyl ketone	125,497	2,504,329	2,629,826
110-54-3 n-Hexane	132,243	2,300,527	2,432,770
100-42-5 Styrene	6,378	1,988,247	1,994,625
872-50-4 N-Methyl-2-pyrrolidone	10,050	1,720,108	1,730,158
75-05-8 Acetonitrile	167,137	1,280,649	1,447,786
-- Glycol ethers	14,289	1,289,775	1,304,064
107-21-1 Ethylene glycol	40,929	1,127,341	1,168,270
95-63-6 1,2,4-Trimethylbenzene	8,666	675,802	684,468
91-20-3 Naphthalene	3,894	530,177	534,071
68-12-2 N,N-Dimethylformamide	22,300	367,112	389,413
80-62-6 Methyl methacrylate	737	327,827	328,564
98-82-8 Cumene	1,976	308,220	310,196
<b>Subtotal for Top 20 Chemicals</b>	<b>3,191,156</b>	<b>113,624,040</b>	<b>116,815,196</b>
<b>Total for all TRI Chemicals</b>	<b>4,085,536</b>	<b>116,256,175</b>	<b>120,341,711</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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).

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**The 20 Chemicals with Largest Total Treated On-site and Off-site, 2010: All Industries**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
67-56-1 Methanol	1,171,034,163	82,180,214	1,253,214,377
7647-01-0 Hydrochloric acid	1,102,813,856	350,548	1,103,164,404
7664-93-9 Sulfuric acid	653,108,983	123,485	653,232,468
7664-41-7 Ammonia	594,822,059	12,779,952	607,602,011
74-85-1 Ethylene	493,768,309	19,069,108	512,837,417
-- Nitrate compounds	218,128,197	106,706,701	324,834,898
115-07-1 Propylene	288,456,866	4,847,806	293,304,673
7697-37-2 Nitric acid	270,273,335	12,427,823	282,701,158
7782-50-5 Chlorine	206,026,327	35,114	206,061,441
7664-39-3 Hydrogen fluoride	181,667,941	2,823,678	184,491,619
108-88-3 Toluene	148,675,663	17,236,719	165,912,382
107-06-2 1,2-Dichloroethane	115,937,089	3,560,126	119,497,215
64-18-6 Formic acid	113,826,369	651,525	114,477,894
463-58-1 Carbonyl sulfide	79,290,899	0	79,290,899
1330-20-7 Xylene (mixed isomers)	67,405,186	10,377,730	77,782,916
110-54-3 n-Hexane	69,605,874	4,815,976	74,421,850
107-21-1 Ethylene glycol	47,037,740	22,998,202	70,035,941
50-00-0 Formaldehyde	54,621,320	3,927,164	58,548,484
71-43-2 Benzene	52,775,638	4,756,235	57,531,872
75-15-0 Carbon disulfide	55,106,166	94,809	55,200,975
<b>Subtotal for Top 20 Chemicals</b>	<b>5,984,381,979</b>	<b>309,762,915</b>	<b>6,294,144,895</b>
<b>Total for all TRI Chemicals</b>	<b>7,098,912,653</b>	<b>456,597,083</b>	<b>7,555,509,736</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Treated On-site and Off-site, 2010: Manufacturing\* Industries**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
67-56-1 Methanol	1,150,363,853	81,522,158	1,231,886,011
7647-01-0 Hydrochloric acid	660,986,087	350,548	661,336,636
74-85-1 Ethylene	492,841,825	19,069,108	511,910,933
7664-41-7 Ammonia	413,661,404	12,702,724	426,364,128
-- Nitrate compounds	216,512,456	103,726,298	320,238,755
115-07-1 Propylene	287,162,063	4,847,800	292,009,863
7697-37-2 Nitric acid	252,484,757	12,228,758	264,713,515
7782-50-5 Chlorine	205,475,376	34,939	205,510,315
108-88-3 Toluene	116,531,340	15,506,476	132,037,816
107-06-2 1,2-Dichloroethane	114,083,505	3,393,238	117,476,743
7664-39-3 Hydrogen fluoride	113,045,984	2,820,601	115,866,586
64-18-6 Formic acid	112,364,631	642,886	113,007,517
463-58-1 Carbonyl sulfide	71,413,038	0	71,413,038
110-54-3 n-Hexane	64,287,256	4,637,100	68,924,356
107-21-1 Ethylene glycol	42,864,051	22,277,842	65,141,893
50-00-0 Formaldehyde	53,658,255	3,895,861	57,554,116
1330-20-7 Xylene (mixed isomers)	46,898,785	8,688,405	55,587,191
75-15-0 Carbon disulfide	54,867,208	93,152	54,960,360
7664-93-9 Sulfuric acid	53,197,780	123,485	53,321,265
71-43-2 Benzene	47,581,315	4,598,496	52,179,811
<b>Subtotal for Top 20 Chemicals</b>	<b>4,570,280,969</b>	<b>301,159,877</b>	<b>4,871,440,846</b>
<b>Total for all TRI Chemicals</b>	<b>5,536,279,955</b>	<b>439,923,218</b>	<b>5,976,203,174</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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.

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**The 20 Chemicals with Largest Total Treated On-site and Off-site, 2010: Chemicals (NAICS 325)**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
7647-01-0 Hydrochloric acid	610,951,025	41,548	610,992,573
74-85-1 Ethylene	464,115,941	17,476,117	481,592,058
115-07-1 Propylene	250,446,030	639,066	251,085,096
67-56-1 Methanol	164,409,411	47,545,694	211,955,105
7664-41-7 Ammonia	178,109,099	6,715,952	184,825,051
7782-50-5 Chlorine	149,710,779	7,359	149,718,138
7697-37-2 Nitric acid	98,399,399	1,935,647	100,335,047
107-06-2 1,2-Dichloroethane	93,483,505	3,393,236	96,876,740
-- Nitrate compounds	55,651,176	41,083,214	96,734,390
108-88-3 Toluene	42,987,769	13,067,001	56,054,770
107-21-1 Ethylene glycol	32,861,897	16,823,574	49,685,471
64-18-6 Formic acid	44,831,877	550,606	45,382,483
50-00-0 Formaldehyde	41,563,374	3,692,795	45,256,169
106-99-0 1,3-Butadiene	44,318,645	407,834	44,726,479
108-05-4 Vinyl acetate	37,187,195	6,441,026	43,628,221
110-54-3 n-Hexane	38,465,200	4,182,411	42,647,611
79-00-5 1,1,2-Trichloroethane	40,208,769	2,363,078	42,571,848
79-10-7 Acrylic acid	35,562,683	2,785,538	38,348,221
108-31-6 Maleic anhydride	35,866,073	946,310	36,812,383
7550-45-0 Titanium tetrachloride	35,927,056	526,646	36,453,702
<b>Subtotal for Top 20 Chemicals</b>	<b>2,495,056,904</b>	<b>170,624,652</b>	<b>2,665,681,557</b>
<b>Total for all TRI Chemicals</b>	<b>3,170,129,113</b>	<b>274,525,734</b>	<b>3,444,654,846</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Treated On-site and Off-site, 2010: Primary Metals (NAICS 331)**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
7697-37-2 Nitric acid	65,046,796	1,157,480	66,204,276
7664-39-3 Hydrogen fluoride	65,807,406	218,395	66,025,801
7782-50-5 Chlorine	47,643,379	50	47,643,429
7647-01-0 Hydrochloric acid	20,534,572	279,826	20,814,398
-- Nitrate compounds	3,371,080	6,521,886	9,892,965
67-56-1 Methanol	1,842,994	5,194,391	7,037,385
74-85-1 Ethylene	6,977,958	0	6,977,958
74-90-8 Hydrogen cyanide	4,300,000	0	4,300,000
7632-00-0 Sodium nitrite	3,460,487	151,141	3,611,628
108-95-2 Phenol	3,038,843	217,674	3,256,517
1330-20-7 Xylene (mixed isomers)	2,921,877	217,664	3,139,542
7664-41-7 Ammonia	2,686,317	266,469	2,952,786
7429-90-5 Aluminum (fume or dust)	424,564	1,898,360	2,322,924
71-43-2 Benzene	2,311,660	276	2,311,936
-- Polycyclic aromatic compounds	2,071,167	12,724	2,083,891
71-36-3 n-Butyl alcohol	733,482	434,842	1,168,324
121-44-8 Triethylamine	1,163,246	2,435	1,165,681
872-50-4 N-Methyl-2-pyrrolidone	989,055	5,407	994,462
108-88-3 Toluene	582,514	355,684	938,198
1319-77-3 Cresol (mixed isomers)	904,374	1,175	905,549
<b>Subtotal for Top 20 Chemicals</b>	<b>236,811,771</b>	<b>16,935,879</b>	<b>253,747,651</b>
<b>Total for all TRI Chemicals</b>	<b>244,990,028</b>	<b>17,542,817</b>	<b>262,532,844</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Treated On-site and Off-site, 2010: Paper Products (NAICS 322)**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
67-56-1 Methanol	964,886,425	25,258,896	990,145,321
64-18-6 Formic acid	66,499,083	2,820	66,501,903
108-88-3 Toluene	25,913,428	549,949	26,463,377
0049-04-4 Chlorine dioxide	20,462,233	8,461	20,470,694
7664-41-7 Ammonia	14,222,297	20,835	14,243,132
7647-01-0 Hydrochloric acid	10,834,416	0	10,834,416
75-07-0 Acetaldehyde	7,391,871	76,530	7,468,401
7782-50-5 Chlorine	7,047,088	25,000	7,072,088
108-95-2 Phenol	2,958,393	39,787	2,998,180
50-00-0 Formaldehyde	2,459,642	86,477	2,546,119
1330-20-7 Xylene (mixed isomers)	2,281,779	97,163	2,378,942
7664-93-9 Sulfuric acid	2,047,578	0	2,047,578
110-54-3 n-Hexane	1,628,283	9,748	1,638,031
120-80-9 Catechol	1,410,119	7,076	1,417,195
-- Nitrate compounds	1,199,136	11,986	1,211,122
7697-37-2 Nitric acid	541,211	0	541,211
1319-77-3 Cresol (mixed isomers)	422,127	4,244	426,371
108-05-4 Vinyl acetate	335,379	3,849	339,228
100-41-4 Ethylbenzene	318,092	5,157	323,249
-- Glycol ethers	214,122	31,852	245,974
<b>Subtotal for Top 20 Chemicals</b>	<b>1,133,072,702</b>	<b>26,239,830</b>	<b>1,159,312,533</b>
<b>Total for all TRI Chemicals</b>	<b>1,134,379,448</b>	<b>26,510,016</b>	<b>1,160,889,464</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Treated On-site and Off-site, 2010: Petroleum (NAICS 324)**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
7664-41-7 Ammonia	185,038,069	504,016	185,542,085
463-58-1 Carbonyl sulfide	49,281,067	0	49,281,067
115-07-1 Propylene	35,982,843	4,208,734	40,191,577
74-85-1 Ethylene	20,639,376	1,592,983	22,232,360
110-54-3 n-Hexane	21,258,738	382,571	21,641,310
75-15-0 Carbon disulfide	19,092,314	1,601	19,093,915
71-43-2 Benzene	12,348,415	535,087	12,883,502
7664-39-3 Hydrogen fluoride	10,701,546	26	10,701,572
108-95-2 Phenol	7,202,554	799,689	8,002,243
108-88-3 Toluene	6,663,207	521,034	7,184,241
1330-20-7 Xylene (mixed isomers)	6,196,084	334,094	6,530,178
7664-93-9 Sulfuric acid	6,480,585	11	6,480,596
67-56-1 Methanol	3,700,307	665,624	4,365,931
7647-01-0 Hydrochloric acid	3,529,821	380	3,530,201
110-82-7 Cyclohexane	3,182,958	23,364	3,206,323
111-42-2 Diethanolamine	2,066,305	870,172	2,936,477
1319-77-3 Cresol (mixed isomers)	2,038,693	262,980	2,301,673
95-63-6 1,2,4-Trimethylbenzene	1,463,678	558,821	2,022,499
91-20-3 Naphthalene	1,903,522	73,668	1,977,190
-- Cyanide compounds	1,880,835	459	1,881,294
<b>Subtotal for Top 20 Chemicals</b>	<b>400,650,916</b>	<b>11,335,315</b>	<b>411,986,232</b>
<b>Total for all TRI Chemicals</b>	<b>408,592,927</b>	<b>12,879,561</b>	<b>421,472,488</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The Chemicals with Largest Total Treated On-site and Off-site, 2010: Metal Mining (NAICS 2122)**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
7664-93-9 Sulfuric acid	80,948,552	0	80,948,552
-- Cyanide compounds	6,761,251	0	6,761,251
7632-00-0 Sodium nitrite	1,450,000	0	1,450,000
7782-50-5 Chlorine	250,854	0	250,854
-- Nitrate compounds	230,000	4	230,004
74-90-8 Hydrogen cyanide	51,000	0	51,000
7697-37-2 Nitric acid	39,161	0	39,161
7664-41-7 Ammonia	37,904	207	38,111
7664-39-3 Hydrogen fluoride	4,332	0	4,332
1319-77-3 Cresol (mixed isomers)	0	780	780
91-20-3 Naphthalene	0	250	250
71-43-2 Benzene	0	250	250
100-41-4 Ethylbenzene	0	250	250
1330-20-7 Xylene (mixed isomers)	1	58	59
108-88-3 Toluene	0	57	57
95-63-6 1,2,4-Trimethylbenzene	1	0	1
<b>Total for All TRI Chemicals</b>	<b>89,773,055</b>	<b>1,856</b>	<b>89,774,911</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The Chemicals with Largest Total Treated On-site and Off-site, 2010: Coal Mining (NAICS 2121)**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
7647-01-0 Hydrochloric acid	248,319	0	248,319
7664-93-9 Sulfuric acid	12,419	0	12,419
<b>Total for all TRI Chemicals</b>	<b>260,738</b>	<b>0</b>	<b>260,738</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The Chemicals with Largest Total Treated On-site and Off-site, 2010: Electric Utilities (NAICS 2211)**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
7664-93-9 Sulfuric acid	517,505,239	0	517,505,239
7647-01-0 Hydrochloric acid	427,222,454	0	427,222,454
7664-41-7 Ammonia	180,442,192	4,938	180,447,129
7664-39-3 Hydrogen fluoride	64,333,180	0	64,333,180
463-58-1 Carbonyl sulfide	7,877,861	0	7,877,861
-- Nitrate compounds	498,959	0	498,959
-- Polycyclic aromatic compounds	409,806	39	409,845
7782-50-5 Chlorine	250,750	0	250,750
91-20-3 Naphthalene	98,374	602	98,976
-- Barium compounds	28,949	91	29,040
7632-00-0 Sodium nitrite	14,000	0	14,000
110-54-3 n-Hexane	13,765	7	13,772
95-63-6 1,2,4-Trimethylbenzene	13,765	0	13,765
107-21-1 Ethylene glycol	0	4,300	4,300
191-24-2 Benzo(g,h,i)perylene	3,383	1	3,384
1336-36-3 Polychlorinated biphenyls (PCBs)	32	0	32
1330-20-7 Xylene (mixed isomers)	0	1	1
71-43-2 Benzene	0	1	1
108-88-3 Toluene	0	1	1
110-82-7 Cyclohexane	0	1	1
<b>Subtotal for Top 20 Chemicals</b>	<b>1,198,712,710</b>	<b>9,982</b>	<b>1,198,722,692</b>
<b>Total for all TRI Chemicals</b>	<b>1,198,712,710</b>	<b>9,983</b>	<b>1,198,722,692</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Treated On-site and Off-site, 2010: Chemical Wholesale Distributors (NAICS 4246)**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
7647-01-0 Hydrochloric acid	275,829	0	275,829
7664-41-7 Ammonia	184,337	40,714	225,051
67-56-1 Methanol	6,585	179,653	186,238
1330-20-7 Xylene (mixed isomers)	781	156,168	156,949
106-99-0 1,3-Butadiene	94,000	0	94,000
108-88-3 Toluene	2,033	71,172	73,205
7697-37-2 Nitric acid	64,278	3,305	67,583
75-09-2 Dichloromethane	2,312	56,908	59,220
-- Glycol ethers	10,341	32,262	42,603
7664-39-3 Hydrogen fluoride	35,907	86	35,993
107-21-1 Ethylene glycol	76	34,868	34,944
111-42-2 Diethanolamine	125	33,337	33,462
7782-50-5 Chlorine	32,332	150	32,482
115-07-1 Propylene	27,000	0	27,000
108-10-1 Methyl isobutyl ketone	291	21,602	21,893
71-36-3 n-Butyl alcohol	81	12,225	12,306
100-41-4 Ethylbenzene	0	10,797	10,797
127-18-4 Tetrachloroethylene	124	8,381	8,505
100-42-5 Styrene	71	7,855	7,926
121-44-8 Triethylamine	0	7,521	7,521
<b>Subtotal for Top 20 Chemicals</b>	<b>736,503</b>	<b>677,003</b>	<b>1,413,506</b>
<b>Total for All TRI Chemicals</b>	<b>753,522</b>	<b>708,615</b>	<b>1,462,137</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Treated On-site and Off-site, 2010: Petroleum Terminals/Bulk Storage (NAICS 4247)**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
108-88-3 Toluene	1,559,444	21,322	1,580,766
110-54-3 n-Hexane	1,323,623	98,304	1,421,927
115-07-1 Propylene	1,267,804	6	1,267,810
71-43-2 Benzene	1,189,157	28,987	1,218,143
74-85-1 Ethylene	918,449	0	918,449
1330-20-7 Xylene (mixed isomers)	872,930	21,232	894,162
106-99-0 1,3-Butadiene	624,005	570	624,575
95-63-6 1,2,4-Trimethylbenzene	372,841	8,414	381,255
100-41-4 Ethylbenzene	225,085	3,574	228,659
110-82-7 Cyclohexane	185,359	27,628	212,987
91-20-3 Naphthalene	54,621	3,251	57,872
106-42-3 p-Xylene	35,000	470	35,470
67-56-1 Methanol	6,527	720	7,247
107-21-1 Ethylene glycol	200	5,108	5,308
98-82-8 Cumene	3,873	214	4,086
-- Polycyclic aromatic compounds	2,916	17	2,933
77-73-6 Dicyclopentadiene	0	1,880	1,880
100-42-5 Styrene	1,559	7	1,566
108-38-3 m-Xylene	1,390	1	1,391
78-92-2 sec-Butyl alcohol	0	893	893
<b>Subtotal for Top 20 Chemicals</b>	<b>8,644,781</b>	<b>222,598</b>	<b>8,867,378</b>
<b>Total for all TRI Chemicals</b>	<b>8,645,082</b>	<b>222,776</b>	<b>8,867,858</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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

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**The 20 Chemicals with Largest Total Treated On-site and Off-site, 2010: Hazardous Waste/Solvent Recovery (NAICS 562)**

<b>CAS Number Chemname</b>	<b>Quantity Treated On-site Pounds</b>	<b>Quantity Treated Off-site Pounds</b>	<b>Total Quantity Treated On-site and Off-site Pounds</b>
108-88-3 Toluene	30,581,391	1,635,861	32,217,252
67-56-1 Methanol	20,657,199	455,472	21,112,671
1330-20-7 Xylene (mixed isomers)	19,629,881	1,416,344	21,046,225
79-01-6 Trichloroethylene	19,695,977	581,806	20,277,783
127-18-4 Tetrachloroethylene	14,495,710	682,144	15,177,854
7647-01-0 Hydrochloric acid	11,573,533	0	11,573,533
100-41-4 Ethylbenzene	7,121,964	190,713	7,312,677
75-05-8 Acetonitrile	6,386,405	104,500	6,490,905
7697-37-2 Nitric acid	5,412,183	181,741	5,593,925
75-09-2 Dichloromethane	3,349,555	1,914,058	5,263,613
107-21-1 Ethylene glycol	4,035,471	659,377	4,694,848
7664-39-3 Hydrogen fluoride	4,248,538	2,991	4,251,528
71-43-2 Benzene	4,004,581	128,077	4,132,658
110-54-3 n-Hexane	3,976,925	79,152	4,056,077
108-10-1 Methyl isobutyl ketone	3,745,456	248,677	3,994,133
108-90-7 Chlorobenzene	3,459,330	58,606	3,517,936
872-50-4 N-Methyl-2-pyrrolidone	2,685,136	800,320	3,485,456
-- Nitrate compounds	422,520	2,904,259	3,326,779
71-36-3 n-Butyl alcohol	3,019,236	133,710	3,152,946
71-55-6 1,1,1-Trichloroethane	2,883,331	164,918	3,048,249
<b>Subtotal for Top 20 Chemicals</b>	<b>171,384,322</b>	<b>12,342,725</b>	<b>183,727,047</b>
<b>Total for all TRI Chemicals</b>	<b>246,135,437</b>	<b>15,304,620</b>	<b>261,440,057</b>

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 [www.epa.gov/tri/triprogram/FactorsToConPDF.pdf](http://www.epa.gov/tri/triprogram/FactorsToConPDF.pdf).

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