Pharmaceuticals

1995 TRI Releases for Pharmaceutical Facilities (SIC 2833 and 2834) by Number of Facilities Reporting (pounds/year)*

Chemical Name	# Reporting Chemical	Fugitive Air	Point Air	Water Discharges	Underground Injection	Land Disposal	Total Releases	Avg. Releases Per Facility
Methanol	104	1,396,868	2,100,445	841,250	5,820,000	1,370	10,159,933	97,692
Dichloromethane[C]	63	2,386,889	4,611,794	21,635	83,000	5	7,103,323	112,751
Hydrochloric Acid (1995 and after "Acid Aerosols" Only)	62	68,269	532,143	10	0	5	600,427	9,684
Toluene	54	498,932	593,839	10,025	9,100	0	1,111,896	20,591
Ammonia	42	772,824	380,822	1,665,336	0	232,413	3,051,395	72,652
Phosphoric Acid	31	5,194	5,160	20	0	5	10,379	335
Ethylene Glycol	30	21,721	2,638	20,200	0	500	45,059	1,502
Acetonitrile	25	206,608	106,670	1,405	219,000	5	533,688	21,348
N,N-dimethylformamide[C]	20	63,972	10,598	69,005	1,000,000	1,700	1,145,275	57,264
Chlorine	19	4,315	9,036	16,633	0	5	29,989	1,578
N-hexane	18	201,267	258,124	2,384	5,300	5	467,080	25,949
Triethylamine	17	22,262	15,957	10,030	5,900	5	54,154	3,186
Zinc Compounds[M]	16	765	11,169	73,686	100,000	121,500	307,120	19,195
Chloroform[C]	14	55,536	88,826	3,105	0	0	147,467	10,533
N-butyl Alcohol	14	145,024	476,734	255	6,600	0	628,613	44,901
Methyl Isobutyl Ketone	14	273,952	109,175	15,000	6,500	0	404,627	28,902
Xylene (Mixed Isomers)	14	10,712	107,105	0	0	0	117,817	8,416
Formic Acid	13	21,550	3,173	5,160	1,400	5	31,288	2,407
Nitric Acid	13	8,029	12,928	10	0	0	20,967	1,613
Methyl Tert-butyl Ether	11	4,061	18,449	0	12,000	0	34,510	3,137
Sulfuric Acid	11	22,283	3,091	0	0	0	25,374	2,307
Nitrate Compounds	10	0	0	2,082,243	0	16,875	2,099,118	209,912
Formaldehyde[C]	9	2,662	3,772	2,000	0	0	8,434	937
Cyclohexane	9	47,574	147,052	700	33,000	0	228,326	25,370
Dichlorodifluoromethane[O]	8	22,610	195,178	0	0	0	217,788	27,224
Certain Glycol Ethers	7	1,310	27,944	5	0	0	29,259	4,180
Tert-butyl Alcohol	7	26,713	19,473	2,400	36,000	0	84,586	12,084
Methyl Ethyl Ketone	7	20,624	51,120	50	31,000	0	102,794	14,685
Naphthalene	7	515	1,014	0	0	0	1,529	218
Pyridine	7	2,820	3,093	5	13,000	0	18,918	2,703
Copper Compounds[M]	6	6	67	0	0	0	73	12
Cyanide Compounds	6	425	868	5,810	2,800	0	9,903	1,651
Manganese Compounds[M]	6	260	1,005	26,905	0	505	28,675	4,779
Chloromethane	6	28,840	97,844	44,000	0	0	170,684	28,447
Trichlorofluoromethane[O]	6	59,306	61,801	0	0	0	121,107	20,185
Di(2-ethylhexyl) Phthalate[C]	6	255	292	0	0	0	547	91
Ethylbenzene	5	789	977	0	0	0	1,766	353
1,2-Dichloroethane[C]	5	928	1,313	269	10,000	0	12,510	2,502
2-methoxyethanol	5	9,130	9,455	0	0	0	18,585	3,717
Bromine	5	780	389	10	0	5	1,184	237
Arsenic Compounds[C, M]	4	5	10	0	0	0	15	4
Nickel Compounds[C, M]	4	0	75	434	0	96	605	151
Chlorodifluoromethane[O]	4	31,484	30,009	0	0	0	61,493	15,373
Chloroacetic Acid	4	24	5	16	0	0	45	11
Benzoyl Peroxide	4	0	0	0	0	0	0	0
Sodium Nitrite	4	0	0	15,000	0	0	15,000	3,750
Barium Compounds[M]	3	10	5	250	0	0	265	88
Aniline	3	3,896	1,173	0	0	0	5,069	1,690
Benzene[C]	3	2,970	582	0	760	0	4,312	1,437
Ethylene Oxide[C]	3	12,143	9,550	0	0	0	21,693	7,231
Dichlorotetrafluoroethane	3	4,978	2,260	0	0	0	7,238	2,413
Peracetic Acid	3	255	5	5	0	5	270	90
Hydrazine[C]	3	285	50	3	0	0	338	113
Ozone	3	250	522	0	0	0	772	257
Tetracycline Hydrochloride	2	0	754	0	0	0	754	377
Isopropyl Alcohol (Manufacturing, Strong-acid Process Only)	2	61,250	140,250	0	0	0	201,500	100,750
Methyl Iodide	2	1,100	850	0	0	0	1,950	975
Propylene Oxide[C]	2	500	1,330	5	0	0	1,835	918
Freon 113[O]	2	3,500	38,119	0	0	0	41,619	20,810
Acrylic Acid	2	33	22	0	0	0	55	28
Phthalic Anhydride	2	1	0	0	0	0	1	1
Benzoyl Chloride	2	0	2	0	0	0	2	1
Benzyl Chloride	2	5	5	0	0	0	10	5
Epichlorohydrin[C]	2	290	50	0	0	0	340	170

1995 TRI Releases for Pharmaceutical Facilities (SIC 2833 and 2834) by Number of Facilities Reporting (pounds/year)*

Chemical Name	# Reporting Chemical	Fugitive Air	Point Air	Water Discharges	Underground Injection	Land Disposal	Total Releases	Avg. Releases Per Facility
M-xylene	2	1,565	571	250	0	0	2,386	1,193
Phenol	2	255	255	0	0	0	510	255
Diethanolamine	2	500	1,000	5	0	0	1,505	753
1,4-Dioxane[C]	2	270	260	0	0	0	530	265
Dimethylamine	2	23,500	15,250	250	0	250	39,250	19,625
Tetrachloroethylene[C]	2	2,239	14,000	0	0	0	16,239	8,120
Diazinon	2	5	278	5	0	0	288	144
Zinc (Fume or Dust)[M]	2	0	2	0	0	0	2	1
Titanium Tetrachloride	2	5	10	0	0	0	15	8
Hydrogen Fluoride	2	250	8,350	0	0	0	8,600	4,300
Abamectin	2	0	0	16	0	0	16	8
Antimony Compounds[M]	1	5	5	0	0	0	10	10
Chromium Compounds[C, M]	1	0	0	0	43,000	0	43,000	43,000
Cobalt Compounds[C, M]	1	0	0	0	0	0	0	0
Selenium Compounds[M]	1	0	3	0	0	0	3	3
Famphur	1	0	0	0	0	0	0	0
Carbon Tetrachloride[C, O]	1	60	400	67	0	0	527	527
Phenytoin[C]	1	0	0	0	0	0	0	0
Dichlorvos[C]	1	5	250	5	0	0	260	260
1,1,1-Trichloroethane[O]	1	76,500	52,500	0	0	0	129,000	129,000
Bromomethane[O]	1	50	21	0	0	0	71	71
Chloroethane	1	163	0	0	0	0	163	163
Carbon Disulfide	1	2,450	21,000	0	0	0	23,450	23,450
Phosgene	1	240	5	0	5	0	250	250
Dimethyl Sulfate[C]	1	0	8	0	0	0	8	8
Isobutyraldehyde	1	11	25	0	0	0	36	36
Sec-butyl Alcohol	1	250	71,799	0	0	0	72,049	72,049
Methyl Chlorocarbonate	1	250	0	5	0	5	260	260
Quinoline	1	5	0	5	0	5	15	15
Biphenyl	1	5	0	0	0	0	5	5
O-xylene	1	2,400	54	0	0	0	2,454	2,454
1,2-Dichlorobenzene	1	244	2,490	0	0	0	2,734	2,734
1,2,4-trimethylbenzene	1	250	250	5	0	0	505	505
Cumene	1	250	250	5	0	0	505	505
Acetophenone	1	5	5	0	0	0	10	10
Nitrobenzene	1	3,891	321	0	0	0	4,212	4,212
Allyl Chloride	1	321	27	0	0	0	348	348
Chloromethyl Methyl Ether[C]	1	0	0	0	0	0	0	0
Maleic Anhydride	1	5	5	0	5	0	15	15
Chlorobenzene	1	12	11	0	0	0	23	23
Cyclohexanol	1	93	133	0	0	0	226	226
2-ethoxyethanol	1	29	91	0	0	0	120	120
Propylene	1	5	5	0	0	0	10	10
N,N-dimethylaniline	1	5	35	0	0	0	40	40
Malathion	1	0	2	0	0	0	2	2
Thiabendazole	1	175	3,504	0	0	0	3,679	3,679
Ethyl Chloroformate	1	250	250	5	0	5	510	510
1,3-Dichlorobenzene	1	1,200	80	0	0	0	1,280	1,280
Lithium Carbonate	1	0	0	0	0	0	0	0
N-methyl-2-pyrrolidone	1	7	0	0	0	0	7	7
Tetrachlorvinphos	1	5	5	5	0	0	15	15
Trifluralin	1	6,900	250	0	0	0	7,150	7,150
Benfluralin	1	750	250	0	0	0	1,000	1,000
Prometryn	1	0	0	0	0	0	0	0
Nickel[C, M]	1	0	0	250	0	0	250	250
Thiophanate-methyl	1	0	187	0	0	0	187	187
Sodium Azide	1	0	0	0	0	0	0	0
Vinclozolin	1	0	0	0	0	0	0	0
Permethrin	1	0	0	0	0	0	0	0
Propiconazole	1	0	0	0	0	0	0	0
	200**	6,664,939	10,500,358	4,936,137	7,438,370	375,274	29,915,078	149,575

[C]Known or suspect carcinogens [M] Metals and metal compounds [O]Ozone depleters

* Refer to Section III for a discussion of the TRI data and its limitations, methodology used to obtain this data, definitions of the column headings, and the definitions of carcinogens, metals, and ozone depleters.

**Total number of facilities (not chemical reports) reporting to TRI in this industry sector.

1995 TRI Transfers for Pharmaceutical Facilities (SIC 2833 and 2834) by Number and Facilities Reporting (pounds/year)*

Chemical Name	# Reporting Chemical	POTW Transfers	Disposal Transfers	Recycling Transfers	Treatment Transfers	Energy Recovery Transfers	Total Transfers	Avg Transfer Per Facility
Methanol	104	10,078,077	15,765	2,895,743	6,162,576	45,367,761	64,531,571	620,496
Dichloromethane[C]	63	751,775	16,824	5,012,106	7,276,313	1,235,911	14,292,929	226,872
Hydrochloric Acid (1995 and after "Acid Aerosols" Only)	62	1,760	0	40	42,681	50	44,531	718
Toluene	54	414,049	1,561	3,339,411	6,122,272	19,740,070	29,617,363	548,470
Ammonia	42	1,071,827	1,465	.	112,847	9,600	1,195,739	28,470
Phosphoric Acid	31	3,105	0	.	57	.	3,162	102
Ethylene Glycol	30	554,598	3,852	336,439	61,127	77,350	1,033,366	34,446
Acetonitrile	25	95,246	1	2,069,030	3,383,572	2,740,790	8,288,639	331,546
N,N-dimethylformamide[C]	20	183,581	139,701	148,797	237,849	1,603,998	2,313,926	115,696
Chlorine	19	5	.	.	.	.	5	0
N-hexane	18	12,278	2,700	240,109	1,441,312	1,138,050	2,834,449	157,469
Triethylamine	17	187,407	12	3,600	198,784	247,722	637,525	37,501
Zinc Compounds[M]	16	9,575	750,130	.	22,330	5,957	787,992	49,250
Chloroform[C]	14	106,977	750	44,703	702,085	30,985	885,500	63,250
N-butyl Alcohol	14	489,700	1	.	107,940	953,422	1,551,063	110,790
Methyl Isobutyl Ketone	14	260,567	0	1,573	230,440	1,016,450	1,509,030	107,788
Xylene (Mixed Isomers)	14	7,961	.	250	9,823	1,572,510	1,590,544	113,610
Formic Acid	13	86,010	.	.	37,750	29	123,789	9,522
Nitric Acid	13	5	.	250,803	339	.	251,147	19,319
Methyl Tert-butyl Ether	11	27,370	0	.	278,900	1,070,683	1,376,953	125,178
Sulfuric Acid	11	0	.	.	.	.	0	0
Nitrate Compounds	10	100,018	.	.	135	.	100,153	10,015
Formaldehyde[C]	9	251,529	3,650	.	190	.	255,369	28,374
Cyclohexane	9	755	600	250	15,100	311,350	328,055	36,451
Dichlorodifluoromethane[O]	8	0	.	95,320	137,292	.	232,612	29,077
Certain Glycol Ethers	7	146,087	.	.	26	312,401	458,514	65,502
Tert-butyl Alcohol	7	6,066	4,950	.	251	425,850	437,117	62,445
Methyl Ethyl Ketone	7	1,190	.	750	5,432	260,702	268,074	38,296
Naphthalene	7	0	0	.	92	435	527	75
Pyridine	7	207,128	5	11,765	2,937	92,177	314,012	44,859
Copper Compounds[M]	6	467	1,410	.	9,300	.	11,427	1,905
Cyanide Compounds	6	285	.	.	104	.	389	65
Manganese Compounds[M]	6	6,650	8,116	.	500	.	15,266	2,544
Chloromethane	6	20	.	.	42	.	62	10
Trichlorofluoromethane[O]	6	0	.	104,310	233,270	167,833	505,413	84,236
Di(2-ethylhexyl) Phthalate[C]	6	281	13,698	2,912,911	.	647	2,927,537	487,923
Ethylbenzene	5	316	.	.	3,266	74,215	77,797	15,559
1,2-Dichloroethane[C]	5	3,124	250	100,597	2,074	36,300	142,345	28,469
2-methoxyethanol	5	976,200	.	.	.	1,524,333	2,500,533	500,107
Bromine	5	2,640,807	259,632	.	.	.	2,900,439	580,088
Arsenic Compounds[C, M]	4	60	7,494	.	3,608	.	11,162	2,791
Nickel Compounds[C, M]	4	0	422	83,180	14	.	83,616	20,904
Chlorodifluoromethane[O]	4	0	.	.	.	.	0	0
Chloroacetic Acid	4	0	.	.	2,628	.	2,628	657
Benzoyl Peroxide	4	1,502	250	.	2,797	1,303	5,852	1,463
Sodium Nitrite	4	124,660	.	.	13,009	.	137,669	34,417
Barium Compounds[M]	3	170	58	.	14	.	242	81
Aniline	3	2,500	11,833	.	24,922	867	40,122	13,374
Benzene[C]	3	523	20	.	96,050	335,350	431,943	143,981
Ethylene Oxide[C]	3	0	.	.	750	.	750	250
Dichlorotetrafluoroethane	3	0	.	1,689	15,787	.	17,476	5,825
Peracetic Acid	3	0	.	.	.	.	0	0
Hydrazine[C]	3	0	.	.	.	.	0	0
Ozone	3	0	.	.	.	.	0	0
Tetracycline Hydrochloride	2	1,256	112	.	500	.	1,868	934
Isopropyl Alcohol (Manufacturing, Strong-acid Process Only, No Supplie	2	1,300	.	.	.	.	1,300	650
Methyl Iodide	2	0	.	.	.	.	0	0
Propylene Oxide[C]	2	20,750	.	.	.	180	20,930	10,465
Freon 113[O]	2	0	.	.	16,000	62	16,062	8,031
Acrylic Acid	2	0	.	.	2,758	.	2,758	1,379
Phthalic Anhydride	2	0	.	.	.	.	0	0
Benzoyl Chloride	2	0	.	.	.	.	0	0
Benzyl Chloride	2	5	.	.	10	.	15	8
Epichlorohydrin[C]	2	0	0	.	.	.	0	0
M-xylene	2	20	.	.	87,148	78,059	165,227	82,614

1995 TRI Transfers for Pharmaceutical Facilities (SIC 2833 and 2834) by Number and Facilities Reporting (pounds/year)*

Chemical Name	# Reporting Chemical	POTW Transfers	Disposal Transfers	Recycling Transfers	Treatment Transfers	Energy Recovery Transfers	Total Transfers	Avg Transfer Per Facility
Phenol	2	250	.	.	548	.	798	399
Diethanolamine	2	1,500	.	.	.	47,916	49,416	24,708
1,4-Dioxane[C]	2	4,170	2	.	300	8,960	13,432	6,716
Dimethylamine	2	0	38,000	.	2,100	.	40,100	20,050
Tetrachloroethylene[C]	2	0	.	510	.	49,005	49,515	24,758
Diazinon	2	0	1,060	.	1,609	.	2,669	1,335
Zinc (Fume or Dust)[M]	2	0	1,223	.	.	.	1,223	612
Titanium Tetrachloride	2	0	.	.	.	.	0	0
Hydrogen Fluoride	2	0	.	.	.	.	0	0
Abamectin	2	0	.	.	5,582	.	5,582	2,791
Antimony Compounds[M]	1	0	53,200	.	.	.	53,200	53,200
Chromium Compounds[C, M]	1	250	260	.	5	.	515	515
Cobalt Compounds[C, M]	1	2,920	.	.	.	.	2,920	2,920
Selenium Compounds[M]	1	260	.	.	13,641	.	13,901	13,901
Famphur	1	0	.	.	1,540	.	1,540	1,540
Carbon Tetrachloride[C, O]	1	40	.	.	45,782	.	45,822	45,822
Phenytoin[C]	1	0	19,300	.	.	.	19,300	19,300
Dichlorvos[C]	1	0	250	.	250	.	500	500
1,1,1-Trichloroethane[O]	1	0	.	106,250	.	.	106,250	106,250
Bromomethane[O]	1	0	.	.	.	.	0	0
Chloroethane	1	0	.	.	2,489	.	2,489	2,489
Carbon Disulfide	1	1,120	.	.	18	11,390	12,528	12,528
Phosgene	1	0	.	.	.	.	0	0
Dimethyl Sulfate[C]	1	0	.	.	.	.	0	0
Isobutyraldehyde	1	0	.	8,647	640	.	9,287	9,287
Sec-butyl Alcohol	1	0	.	.	.	.	0	0
Methyl Chlorocarbonate	1	0	.	.	.	.	0	0
Quinoline	1	0	.	.	250	.	250	250
Biphenyl	1	0	.	.	.	.	0	0
O-xylene	1	0	.	.	100,000	61,800	161,800	161,800
1,2-Dichlorobenzene	1	6,480	.	.	14,000	91,891	112,371	112,371
1,2,4-trimethylbenzene	1	4,800	.	.	.	.	4,800	4,800
Cumene	1	1,167	.	.	.	.	1,167	1,167
Acetophenone	1	0	.	.	.	.	0	0
Nitrobenzene	1	5	.	.	5,914	.	5,919	5,919
Allyl Chloride	1	0	.	.	.	.	0	0
Chloromethyl Methyl Ether[C]	1	0	.	.	.	.	0	0
Maleic Anhydride	1	0	.	.	.	.	0	0
Chlorobenzene	1	0	.	.	.	179,228	179,228	179,228
Cyclohexanol	1	0	.	.	.	.	0	0
2-ethoxyethanol	1	4	.	.	25,004	.	25,008	25,008
Propylene	1	0	.	.	.	.	0	0
N,N-dimethylaniline	1	10,000	.	.	.	328,000	338,000	338,000
Malathion	1	0	26	.	273	.	299	299
Thiabendazole	1	271	.	.	.	2,160	2,431	2,431
Ethyl Chloroformate	1	0	.	.	.	.	0	0
1,3-Dichlorobenzene	1	1,400	.	.	.	.	1,400	1,400
Lithium Carbonate	1	0	.	.	750	.	750	750
N-methyl-2-pyrrolidone	1	249,000	.	.	.	.	249,000	249,000
Tetrachlorvinphos	1	0	4,200	.	.	.	4,200	4,200
Trifluralin	1	0	18,000	.	.	.	18,000	18,000
Benfluralin	1	0	14,000	.	.	.	14,000	14,000
Prometryn	1	0	.	.	203	.	203	203
Nickel[C, M]	1	0	18	400,000	.	.	400,018	400,018
Thiophanate-methyl	1	0	.	.	2,677	.	2,677	2,677
Sodium Azide	1	0	.	.	.	.	0	0
Vinclozolin	1	0	.	.	1,030	.	1,030	1,030
Permethrin	1	0	.	.	.	.	0	0
Propiconazole	1	0	.	.	1,025	.	1,025	1,025
	200**	19,119,179	1,394,801	18,168,783	27,330,633	81,213,752	147,239,047	736,195

[C]Known or suspect carcinogens [M] Metals and metal compounds [O]Ozone depleters

* Refer to Section III for a discussion of the TRI data and its limitations, methodology used to obtain this data, definitions of the column headings, and the definitions of carcinogens, metals, and ozone depleters.

**Total number of facilities (not chemical reports) reporting to TRI in this industry sector.

Ten Largest Volume TRI Releasing Pharmaceutical Manufacturing Facilities Reporting Only SIC 2833 and 2834*		
Rank	**Facility[1]**	**Total TRI Releases in Pounds**
1	Pharmacia & Upjohn Co., Portage, Michigan	8,307,190
2	Eli Lilly & Co. - Tippecanoe Labs, Shadeland, Indiana	2,504,810
3	Warner-Lambert Co., Holland, Michigan	2,295,005
4	Upjohn Mfg., Co., Barceloneta, Puerto Rico	2,001,450
5	Pfizer Inc., Groton, Connecticut.	1,761,385
6	Eli Lilly & Co - Clinton Laboratories, Clinton, Indiana	1,282,605
7	Abbott Chemicals, Inc., Barceloneta, Puerto Rico	1,193,707
8	Pfizer Inc., Southport, North Carolina	1,164,350
9	Schering-Plough Products, Inc., Las Piedras, Puerto Rico	756,089
10	Biokyowa Inc., Cape Girardeau, Missouri	669,869

Source: *US EPA 1995 Toxics Release Inventory Database*.
*Refer to Section III for a general discussion of TRI data and its limitations. A discussion of the methodology used to develop this table can be found under the heading *Ten Largest Volume TRI Releasing Facilities*.

Ten Largest Volume TRI Releasing Facilities Reporting Only SIC 2833 and 2834 or SIC 2833 and 2834 and Other SIC Codes*			
Rank	**Facility[1]**	**SIC Codes Reported in TRI**	**Total TRI Releases in Pounds**
1	Pharmacia & Upjohn Co., Portage, Michigan	2834	8,307,190
2	Monsanto Co., Luling, Louisiana	2819, 2834, 2842, 2865, 2869, 2873, 2879	5,698,031
3	Eli Lilly & Co. - Tippecanoe Labs, Shadeland, Indiana	2834	2,504,810
4	Warner-Lambert Co., Holland, Michigan	2834	2,295,005
5	Upjohn Mfg., Co., Barceloneta, Puerto Rico	2834	2,001,450
6	Pfizer Inc., Groton, Connecticut.	2833	1,761,385
7	Ethyl Corp., Orangeburg, South Carolina	2834, 2869, 2969	1,284,456
8	Eli Lilly & Co - Clinton Laboratories, Clinton, Indiana	2833, 2834	1,282,605
9	Dow Chemical Co., Midland, Michigan	2819, 2821, 2824, 2834, 2865, 2869, 2879, 2979	1,228,629
10	Abbott Chemicals, Inc., Barceloneta, Puerto Rico	2833, 2834	1,193,707

Source: *US EPA Toxics Release Inventory Database, 1995*.
*Refer to Section III for a general discussion of TRI data and its limitations. A discussion of the methodology used to develop this table can be found under the heading *Ten Largest Volume TRI Releasing Facilities*.

[1] Being included on this list does not mean that the release is associated with non-compliance with environmental laws.

Source Reduction and Recycling Activity for the Pharmaceuticals Industry (SIC 2833 and 2834) as Reported within TRI*

A	B	C	On-Site			Off-Site			J
			D	E	F	G	H	I	
Year	Quantity of Production-Related Waste (10^6 lbs.)[a]	% Released and Transferred[b]	% Recycled	% Energy Recovery	% Treated	% Recycled	% Energy Recovery	% Treated	% Released and Disposed[c] Off-site
1994	324	50%	14%	2%	34%	5%	22%	13%	11%
1995	382	46%	17%	2%	34%	5%	22%	12%	10%
1996	404	---	19%	2%	37%	5%	19%	10%	8%
1997	414	---	20%	2%	36%	6%	18%	10%	8%

Source: *Toxics Release Inventory Database, 1995.*

* Refer to Section III for a general discussion of TRI data and its limitations. A discussion of the methodology used to develop this table can be found under the heading *Source Reduction and Recycling Activity*.

[a] Within this industry sector, non-production related waste < 1% of production related wastes for 1995.

[b] Total TRI transfers and releases as reported in Section 5 and 6 of Form R as a percentage of production related wastes.

[c] Percentage of production related waste released to the environment and transferred off-site for disposal.

Five-Year Enforcement and Compliance Summary for the Pharmaceutical Industry*									
A	B	C	D	E	F	G	H	I	J
Region	Facilities in Search	Facilities Inspected	Number of Inspections	Average Months Between Inspections	Facilities with 1 or More Enforcement Actions	Total Enforcement Actions	Percent State Lead Actions	Percent Federal Lead Actions	Enforcement to Inspection Rate
I	8	5	11	44	0	0	0%	0%	--
II	60	53	624	6	21	95	84%	16%	0.15
III	18	16	111	10	3	3	100%	0%	0.03
IV	24	17	227	6	4	12	83%	17%	0.05
V	22	16	143	9	4	5	60%	40%	0.03
VI	5	5	17	18	1	4	0%	100%	0.24
VII	12	8	37	19	1	1	100%	0%	0.03
VIII	6	5	22	16	0	0	0%	0%	--
IX	8	3	7	69	0	0	0%	0%	--
X	1	1	2	30	1	2	50%	50%	1.00
TOTAL	164	129	1,201	8	35	122	80%	20%	0.10

*Data obtained from EPA's Integrated Data for Enforcement Analysis (IDEA) System. For a description of IDEA and the methods used to obtain this data, refer to Section II.C. A discussion of this table can be found under the heading, *Five-Year Enforcement and Compliance Summary*, in Section III.