

Table 9

Toxic water pollution in West Virginia

Companies reporting toxic discharges to water (1990-1994)

City: Apple Grove, West Virginia

Facility: **Shell Chemical Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		135,000	23,087	15,721	503	5,035	179,346
Ethylene glycol	Ohio River	135,000	23,087	15,721	503	5,035	179,346

City: Beech Bottom, West Virginia

Facility: **Wheeling-pittsburgh Steel Corp**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals			267	509	926	605	2,307
Zinc compounds	Ohio River		210	390	900	580	2,080
Nickel compounds	Ohio River		42	101			143
Chromium compounds	Ohio River		15	18	26	25	84

City: Belle, West Virginia

Facility: **Du Pont**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		406,255	311,500	289,780	197,400	26,284	1,231,219
Ammonia	Kanawha River	357,702	310,560	285,900	195,000	26,169	1,175,331
Ethylene glycol	Kanawha River	38,335					38,335
Hydrogen cyanide	Kanawha River	2,248		3,170			5,418
Formaldehyde	Kanawha River	4,600					4,600
Methyl methacrylate	Kanawha River	2,523				90	2,613
Methyl ethyl ketone	Simmons Creek				2,400		2,400
Chloroform	Kanawha River	302	179	230			711
Manganese compounds	Kanawha River		2	480			482
Sulfuric acid	Kanawha River	3	407				410
Dichloromethane	Kanawha River	184	147				331
Methanol	Simmons Creek	200					200
1,4-Dioxane	Kanawha River		121				121
Phosphoric acid	Kanawha River		84				84
Toluene	Kanawha River	82					82
N,N-Dimethylaniline	Kanawha River	61					61
Hydroquinone	Kanawha River					25	25
Acetaldehyde	Kanawha River	15					15

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Toxic water pollution in West Virginia

Companies reporting toxic discharges to water (1990-1994)

City: Belle, West Virginia

Facility: **Occidental Chemical Corp.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		6,881	1,117	1,287	1,684	1,011	11,980
Methanol	Kanawha River	6,072	614	132	265	294	7,377
Chloroform	Reynold's Branch	298	231	552	652	375	2,108
Dichloromethane	Reynold's Branch	435	243	515	585	297	2,075
Carbon tetrachloride	Reynold's Branch	73	20	82	177	40	392
Chloroform	Kanawha River	1	5	2	2	2	12
Dichloromethane	Kanawha River	1	2	2	1	1	7
Carbon tetrachloride	Kanawha River	1	1	1	1	1	5
Chloromethane	Kanawha River		1	1	1	1	4

City: Belmont, West Virginia

Facility: **Cytec Ind.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		324,285	173,328	75,857	252,728	30,678	856,876
Ammonia	Ohio River	250	167,000	70,600	247,000	17,000	501,850
Ammonium sulfate (solution)	Ohio River	310,000					310,000
Methanol	Ohio River	12,000	5,100	4,000	4,900	13,000	39,000
Formaldehyde	Ohio River	1,000	600	590	600	250	3,040
Methyl isobutyl ketone	Ohio River	250	450	440	30	300	1,470
Maleic anhydride	Ohio River	250	120	93	104		567
Toluene	Ohio River	25	27	110	63	120	345
Acetone	Ohio River	250	26	19	28		323
Acrylonitrile	Ohio River	250	2	2	2	3	259
Xylene (mixed isomers)	Ohio River	5	2	3	1	5	16
Diethanolamine	Ohio River	5					5
Ethylene oxide	Ohio River		1				1

City: Ceredo, West Virginia

Facility: **Kanawha River Terminals Inc.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals						269,835	269,835
Ammonia	Twelve Pole Creek					269,835	269,835

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Companies reporting toxic discharges to water (1990-1994)

City: Chester, West Virginia

Facility: **Boc Indl. Gases**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		250	250				500
Chlorine	Ohio River	250	250				500

City: Follansbee, West Virginia

Facility: **Wheeling-Pittsburgh Steel Corp**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		196,014	219,234	300,472	310,018	171,862	1,197,600
Ammonia	Ohio River	180,000	200,000	290,000	280,000	150,000	1,100,000
Cyanide compounds	Ohio River	9,900	16,000	8,700	29,000	16,000	79,600
Phenol	Ohio River	5,000	2,600	1,600	970	5,800	15,970
Manganese compounds	Ohio River	1,040					1,040
Zinc compounds	Ohio River		570				570
Naphthalene	Ohio River	70	60	172	34	44	380
Anthracene	Ohio River				9	11	20
Benzene	Ohio River	4	4		5	6	19
Toluene	Ohio River					1	1

City: Follansbee, West Virginia

Facility: **Wheeling-nisshin Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		863	31	31	260		1,185
Zinc compounds	Ohio River	592	5	5	5		607
Chromium compounds	Ohio River	21	21	21	250		313
Aluminum oxide (fibrous)	Ohio River	250	5	5	5		265

City: Frank, West Virginia

Facility: **Howes Leather Co. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		10,155	37,674	85,210	129,600	81,556	344,195
Ammonia	Greenbrier River	7,200	37,674	85,210	129,600	81,556	341,240
Chlorine	Greenbrier River	2,700					2,700
Chromium compounds	Greenbrier River	250					250
Sulfuric acid	Greenbrier River	5					5

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Companies reporting toxic discharges to water (1990-1994)

City: Gallipolis Ferry, West Virginia
Facility: **Akzo Nobel Chemicals Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		82,235	4,842	3,675	9,792	3,225	103,769
Ethylene glycol	Ohio River	22,000	4,600	3,400	9,300	2,700	42,000
n-Butyl alcohol	Ohio River	32,000	24	8	11	7	32,050
Glycol ethers	Ohio River	28,000	150	140	89	480	28,859
Propylene	Ohio River	78	58	110	370	30	646
Phenol	Ohio River	140	7	10	15	3	175
Cresol (mixed isomers)	Ohio River	17	3	4	1	1	26
1,2-Dichloropropane	Ohio River			3	6	4	13

City: Glen Dale, West Virginia
Facility: **Triangle Wire & Cable Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		250	70	79	81	69	549
Zinc compounds	Ohio River	250	70	79	81	69	549

City: Huntington, West Virginia
Facility: **Inco Alloys Intl. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals				139	215	245	599
Molybdenum trioxide	Pat's Branch			40	90	104	234
Nickel compounds	Pat's Branch			52	66	75	193
Copper compounds	Pat's Branch			28	28	32	88
Manganese compounds	Pat's Branch			7	12	14	33
Chromium compounds	Pat's Branch			7	10	11	28
Cobalt	Pat's Branch			5	9	9	23

City: Institute, West Virginia
Facility: **Union Carbide C & P Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		6,040	5,446	2,646	4,106	789	19,027
Acetone	Kanawha River	4,370	3,063	1,772	713		9,918
2-Ethoxyethanol	Kanawha River	986	1,482		1,932	101	4,501
Methanol	Kanawha River	433	645	517	690	362	2,647
Ethylene glycol	Kanawha River	3		157	552	173	885
Methyl isobutyl ketone	Kanawha River	92	178	84	119	102	575
Phenol	Kanawha River	2	2	110	78		192
Glycol ethers	Kanawha River	79	47	5	21	12	164
Ethylene oxide	Kanawha River	47	13				60
Propylene oxide	Kanawha River	22	15				37
Acetonitrile	Kanawha River	4				19	23
n-Butyl alcohol	Kanawha River	2	1			15	18
Biphenyl	Kanawha River					5	5
Ethylbenzene	Kanawha River			1	1		2

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Companies reporting toxic discharges to water (1990-1994)

City: Institute, West Virginia

Facility: **Rhone-Poulenc Institute Plant**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		3,409	2,172	4,577	2,716	841	13,715

City: Institute, West Virginia

Facility:

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
Dichloromethane	Kanawha River	675	334	2,267	549	77	3,902
Chloroform	Kanawha River	718	886	624	520	213	2,961
Toluene	Kanawha River	601	436	1,089	595	200	2,921
Methanol	Kanawha River	334	317	254	296	155	1,356
Ethylbenzene	Kanawha River	712	2	7	8	2	731
Naphthalene	Kanawha River	116	31	102	363	55	667
Biphenyl	Kanawha River	2	5	166	177	2	352
Aniline	Kanawha River	85	141	35	21		282
Methyl isobutyl ketone	Kanawha River	1	4	2	119	72	198
Acetonitrile	Kanawha River	103				56	159
Pyridine	Kanawha River	51	10	18	59	7	145
Xylene (mixed isomers)	Kanawha River		2	9	9	1	21
Acetone	Kanawha River		4	4			8
Hydrochloric acid	Kanawha River	5					5
Phosphoric acid	Kanawha River	5					5
Benzene	Kanawha River	1				1	2

City: Institute, West Virginia

Facility: **Arco Chemical Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		1,870	48	82			2,000
Acrylonitrile	Kanawha River	1,722					1,722
Styrene	Kanawha River	79					79
Ethylene oxide	Kanawha River	47	13	13			73
Phenol	Kanawha River		1	64			65
Propylene oxide	Kanawha River	22	15				37
Aniline	Kanawha River		19	5			24

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Companies reporting toxic discharges to water (1990-1994)

City: Kearneysville, West Virginia

Facility: **3M**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		265	20	20	20	20	345
Hydroquinone	Turkey Run	250					250
Ethylene glycol	Opequon		5	5	5	5	20
Diethanolamine	Opequon		5	5	5	5	20
Hydroquinone	Opequon		5	5	5	5	20
Phosphoric acid	Opequon		5	5	5	5	20
Phosphoric acid	Turkey Run	5					5
Diethanolamine	Turkey Run	5					5
Ethylene glycol	Turkey Run	5					5

City: Marmet, West Virginia

Facility: **Liquid Carbonic Ind Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals						6,000	6,000
Ammonia	Lens Creek					6,000	6,000

City: Martinsburg, West Virginia

Facility: **Corning Consumer Prods. Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		94	505	296	672	543	2,110
Zinc compounds	Buzzard Run	46	250	250	250	250	1,046
Arsenic compounds	Buzzard Run	43	250	41	172	43	549
Barium compounds	Buzzard Run	5	5	5	250	250	515

City: Millwood, West Virginia

Facility: **Plasma Processing Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals					860	139	999
Aluminum (fume or dust)	Ohio River				672	118	790
Ammonia	Ohio River				188	21	209

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Companies reporting toxic discharges to water (1990-1994)

City: Moorefield, West Virginia

Facility: **Hester Ind. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		900					900
Ammonia	Potomac River	900					900

City: Morgantown, West Virginia

Facility: **Ge Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		268	220	46	88	127	749
Phenol	Monongahela River	134	220	46	88	127	615
Phenol	Unnamed Tributary To	134					134

City: Morgantown, West Virginia

Facility: **Swanson Plating Co. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals						250	250
Chromium compounds	Monongahela River					250	250

City: Morgantown, West Virginia

Facility: **Ge Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		19	46	22	13	4	104
Phenol	Monongahela River	8	40	13	6	4	71
Phenol	Ditch & Culvert To Monongahela		6	9	7		22
Phenol	Ditch And Culvert To	7					7
Phenol	Unnamed Tributary To	4					4

City: Moundsville, West Virginia

Facility: **Hanlin Chemicals**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		5,781	5,043	59			10,883
Zinc compounds	Ohio River	2,500	2,900				5,400
Chlorine	Ohio River	3,200	2,036	31			5,267
Mercury	Ohio River	48	89	28			165
Methanol	Ohio River	30	18				48
Dichloromethane	Ohio River	1					1
Chloroform	Ohio River	1					1
Carbon tetrachloride	Ohio River	1					1

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Toxic water pollution in West Virginia

Companies reporting toxic discharges to water (1990-1994)

City: New Haven, West Virginia

Facility: **American Alloys Inc.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		880	702	702	1,064	2,078	5,426
Manganese	Ohio River	612	466	466	827	1,060	3,431
Barium	Ohio River	233	206	206	216	996	1,857
Chromium	Ohio River	30	30	30	21	22	133
Sulfuric acid	Ohio River	5					5

City: New Martinsville, West Virginia

Facility: **Bayer Corp.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		67,743	88,704	74,514	55,029	142,472	428,462
Ammonia	Ohio River	59,643	81,250	67,655	49,348	129,320	387,216
Nickel compounds	Ohio River	2,606	1,949	3,186	2,440	2,050	12,231
Barium compounds	Ohio River	1,220	994	982	1,047	1,095	5,338
Ethylene glycol	Ohio River	122	108	108	127	4,288	4,753
Zinc compounds	Ohio River	911	847	1,112	703	261	3,834
Diaminotoluene (mixed)	Ohio River	153	520	103	121	1,763	2,660
Nitrobenzene	Ohio River	81	799	14	27	1,370	2,291
Acetone	Ohio River	646	597	404	108		1,755
2,6-Dinitrotoluene	Ohio River	126	452	126	212	374	1,290
2,4-Dinitrotoluene	Ohio River	162	312	48	299	349	1,170
Aniline	Ohio River	407	186	305	159	106	1,163
Chromium compounds	Ohio River	470	294	105	65	57	991
4,4'-Methylenedianiline	Ohio River	33	116	170	41	475	835
1,2-Dichlorobenzene	Ohio River	365	64	27	127	113	696
Toluene	Ohio River	131	55	20	35	275	516
Benzene	Ohio River	66	35	23	35	288	447
Formaldehyde	Ohio River	376	5	9	11	13	414
Chlorobenzene	Ohio River	144	40	22	26	56	288
Methanol	Ohio River	44	44	55	58	69	270
Methyl ethyl ketone	Ohio River					107	107
Xylene (mixed isomers)	Ohio River	15	19	23	21	21	99
Diethanolamine	Ohio River	22	18	17	19	22	98

City: New Martinsville, West Virginia

Facility: **PPG Ind. Inc.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		127,900	24,820	25,508	14,991	18,864	212,083
Chlorobenzene	Ohio River	67,000	3,700	6,347	2,654	1,420	81,121
Chlorine	Ohio River	25,700	8,300	6,085	3,048	7,278	50,411
Hydrochloric acid	Ohio River	11,000	3,400	3,943	3,811	5,026	27,180
Ammonia	Ohio River	6,500	3,500	3,066	2,300	1,059	16,425
1,2-Dichlorobenzene	Ohio River	6,400	2,400	1,661	861	832	12,154
1,4-Dichlorobenzene	Ohio River	3,300	2,000	1,876	1,080	1,329	9,585
Carbon disulfide	Ohio River	1,100	350	1,453	788	1,011	4,702
1,2,4-Trichlorobenzene	Ohio River	3,600					3,600
Benzene	Ohio River	2,300	380	197	310	358	3,545
1,3-Dichlorobenzene	Ohio River	750	730	847	117	533	2,977

Source: Environmental Working Group. Compiled from U.S. Environmental Protection Agency, Toxics Release Inventory 1990-1994.

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Companies reporting toxic discharges to water (1990-1994)

City: New Martinsville, West Virginia
 Facility: **PPG Ind. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		127,900	24,820	25,508	14,991	18,864	212,083
Mercury	Ohio River	250	60	33	22	18	383

City: Newell, West Virginia
 Facility: **Quaker State Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		2,005	2,005	1,755	2,005	2,755	10,525
Benzene	Ohio River	250	250	250	250	250	1,250
Methyl ethyl ketone	Ohio River	250	250	250	250	250	1,250
1,2,4-Trimethylbenzene	Ohio River	250	250	250	250	250	1,250
Ethylbenzene	Ohio River	250	250	250	250	250	1,250
Toluene	Ohio River	250	250	250	250	250	1,250
Cyclohexane	Ohio River	250	250	250	250	250	1,250
Zinc compounds	Ohio River	250	5	5	5	750	1,015
Xylene (mixed isomers)	Ohio River	250	250		250	250	1,000
Sulfuric acid	Ohio River	5	250	250	250	5	760
Chlorine	Ohio River					250	250

City: Newell, West Virginia
 Facility: **Homer Laughlin China Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		500	193	173	110	149	1,125
Zinc compounds	Ohio River	250	84	89	110	110	643
Lead compounds	Ohio River	250	79	84			413
Barium compounds	Ohio River		30			39	69

City: Nitro, West Virginia
 Facility: **Monsanto Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		140,372	63,528	65,122	655	17,047	286,724
Ammonia	Kanawha River	58,000	5,500	65,000	620	17,000	146,120
Methanol	Kanawha River	10,000	25,000	26	10	18	35,054
Toluene	Kanawha River	34,000	3	3	3	3	34,012
Aniline	Kanawha River	8,800	22,000	7	1	2	30,810
Acetone	Kanawha River	10,000	4,900	22	4		14,926
Xylene (mixed isomers)	Kanawha River	13,000	23	11	1	6	13,041
n-Butyl alcohol	Kanawha River	6,500	6,100	51	13	12	12,676
Trichloroethylene	Kanawha River	72					72
Butyraldehyde	Kanawha River		1	1	2	5	9
Carbon disulfide	Kanawha River		1	1	1	1	4

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Companies reporting toxic discharges to water (1990-1994)

City: Nitro, West Virginia

Facility: **FMC Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		20,706	16,760	10,060	11,805	1,800	61,131
Ammonia	Kanawha River	19,696	15,000	9,300	10,300	1,040	55,336
n-Butyl alcohol	Kanawha River	250	750	250	750	250	2,250
Glycol ethers	Kanawha River	250	750	250	250	250	1,750
Hydrochloric acid	Kanawha River	250	250	250	250	250	1,250
Cresol (mixed isomers)	Kanawha River	5	5	5	250	5	270
Carbon disulfide	Kanawha River	250					250
Phenol	Kanawha River	5	5	5	5	5	25

City: Nitro, West Virginia

Facility: **Kincaid Ents. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		466	208		260		934
Phenol	Kanawha River	211	190		250		651
Chlorobenzene	Kanawha River	250	13		5		268
Methoxychlor	Kanawha River		5		5		10
Methoxychlor	Unknown	5					5

City: Nitro, West Virginia

Facility: **AC & S Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		25	255	255	54	150	739
Xylene (mixed isomers)	Kanawha River	25	250	250	37	90	652
o-Toluidine	Kanawha River		5	5	10	40	60
Ethylbenzene	Kanawha River				7	20	27

City: Ravenswood, West Virginia

Facility: **Ravenswood Aluminum Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		8	602	653	442	590	2,295
Manganese compounds	Ohio River			220	270	300	790
Copper compounds	Ohio River			190	160	180	530
Copper	Ohio River		382				382
Manganese	Ohio River	5	220				225
Sulfuric acid	Ohio River			190			190
Zinc compounds	Ohio River	3			12	86	101
Chromium compounds	Ohio River			53		24	77

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Toxic water pollution in West Virginia

Companies reporting toxic discharges to water (1990-1994)

City: Sistersville, West Virginia

Facility: **OSI Specialties Inc.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		42,881	44,215	14,956	26,934	36,198	165,184
Glycol ethers	Sugar Camp Run	28,407	24,619	8,069	6,942		68,037
Glycol ethers	Ohio River				15,923	16,164	32,087
Methanol	Sugar Camp Run	4,545	14,852	2,312	110		21,819
2-Methoxyethanol	Sugar Camp Run	9,719		1,426	127		11,272
Toluene	Ohio River					11,065	11,065
Methanol	Ohio River				249	3,566	3,815
Toluene	Sugar Camp Run	157	3,007	287	2	13	3,466
2-Methoxyethanol	Ohio River				303	2,708	3,011
Chloroethane	Sugar Camp Run			1,938	644		2,582
Chloroethane	Ohio River				1,532	745	2,277
Chloromethane	Ohio River				326	1,927	2,253
Chloromethane	Sugar Camp Run	36	975	919	137		2,067
Chlorine	Sugar Camp Run		701				701
Propylene oxide	Sugar Camp Run				622		622
Hydrochloric acid	Sugar Camp Run		55				55
Xylene (mixed isomers)	Sugar Camp Run	3	5	3	14		25
Ammonia	Sugar Camp Run	9					9
Xylene (mixed isomers)	Ohio River					8	8
Phosphoric acid	Sugar Camp Run	5					5
Ethylbenzene	Sugar Camp Run		1		3		4
Ethylbenzene	Ohio River					2	2
Acrylonitrile	Sugar Camp Run			2			2

City: South Charleston, West Virginia

Facility: **Olin Corp.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		704	127,531	146,150	199,466	24,432	498,283
Ammonia	Kanawha River	680	127,281	145,900	199,064	24,432	497,357
Sulfuric acid	Kanawha River	24	250	250	402		926

City: South Charleston, West Virginia

Facility: **FMC Corp.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		227	52,925	53,035	75,956	5,443	187,586
Methanol	Kanawha River		52,537	52,769	75,465	5,220	185,991
Naphthalene	Kanawha River	227	388	266	491	223	1,595

Table 9

Toxic water pollution in West Virginia

Companies reporting toxic discharges to water (1990-1994)

City: South Charleston, West Virginia
 Facility: **Union Carbide Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		5,514	190	16	53	8,848	14,621
Ethylene glycol	Kanawha River	5,069	77	16	16	8,536	13,714
Acetone	Kanawha River	367			37		404
Glycol ethers	Kanawha River	5	113			250	368
Methanol	Kanawha River	35				60	95
Acetaldehyde	Kanawha River	24				2	26
Vinyl acetate	Kanawha River	13					13
Butyraldehyde	Kanawha River	1					1

City: South Charleston, West Virginia
 Facility: **Arco Chemical Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		131					131
Methanol	Kanawha River	102					102
Propylene oxide	Kanawha River	14					14
Acrylonitrile	Kanawha River	14					14
Styrene	Kanawha River	1					1

City: Vienna, West Virginia
 Facility: **Schuller Mfg. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		295	662	374	564	144	2,039
Ammonia	Ohio River	101	391	243	356	79	1,170
Formaldehyde	Ohio River	153	210	125	203	54	745
Zinc compounds	Ohio River	41	44				85
Phenol	Ohio River		17	6	5	11	39

City: Washington, West Virginia
 Facility: **Du Pont**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		58,417	68,560	76,589	86,990	26,541	317,097
Ammonia	Ohio River	52,000	59,000	66,000	85,358	10,686	273,044
Chlorine	Ohio River					13,250	13,250
Methyl methacrylate	Ohio River			10,000	630	137	10,767
Dichloromethane	Ohio River		8,400		4		8,404
Formaldehyde	Ohio River	3,100	130	130	130	137	3,627
Methanol	Ohio River	3,100	130	130	130	137	3,627
Cyclohexane	Ohio River					1,814	1,814
Zinc compounds	Ohio River	200	220	220	383		1,023
Ethylene glycol	Ohio River		560				560
Hydrochloric acid	Ohio River		100	75	75	75	325
Butyraldehyde	Ohio River				130	137	267
Ethyl acrylate	Ohio River				130	137	267
Freon 113	Ohio River	17	20	34	20	31	122

Table 9

Toxic water pollution in West Virginia

Companies reporting toxic discharges to water (1990-1994)

City: Washington, West Virginia
Facility: **L. B. Foster Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals				6,644	3,822	8,481	18,947

City: Washington, West Virginia
Facility:

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
Phosphorus (yellow or white)	Ohio River			2,822	2,822	6,981	12,625
Antimony compounds	Ohio River			2,822			2,822
Aluminum (fume or dust)	Ohio River			750	750	750	2,250
Manganese compounds	Ohio River			250	250	750	1,250

City: Washington, West Virginia
Facility: **Ge Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		1,328	229	247	286	320	2,410
Chlorine	Pages Run	1,100		5			1,105
Zinc compounds	Ohio River		91	98	120	48	357
Cadmium compounds	Ohio River	61	65	70	72		268
Chlorine	Ohio River		5		5	250	260
Chromium compounds	Ohio River	41	43	45	47	22	198
Mercury compounds	Ohio River	22	25	29	41		117
Copper compounds	Ohio River	81					81
Mercury compounds	Pages Run	23					23
Styrene	Ohio River				1		1

City: Weirton, West Virginia
Facility: **Weirton Steel Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		453,325	277,678	266,141	394,606	351,857	1,743,607
Ammonia	Ohio River	178,850	189,800	141,620	211,700	183,559	905,529
Ethylene glycol	Harmon Creek	64,354		33,624	16,125	12,670	126,773
Manganese compounds	Ohio River	29,835	30,630			34,155	94,620
Chromium compounds	Ohio River	21,900	9,162	7,958	23,724	21,059	83,803
Zinc compounds	Ohio River	22,667	10,400			46,103	79,170
Sulfuric acid	Harmon Creek	71,800					71,800
Manganese	Ohio River			28,685	41,789		70,474
Manganese compounds	Harmon Creek	20,785	21,443			22,438	64,666
Zinc (fume or dust)	Ohio River			12,188	42,997		55,185
Manganese	Harmon Creek			23,050	23,190		46,240
Zinc compounds	Harmon Creek	14,673	8,400			9,600	32,673
Zinc (fume or dust)	Harmon Creek			9,746	9,746		19,492
Antimony compounds	Harmon Creek	4,858	5,003			4,833	14,694
Lead compounds	Ohio River	6,358				6,242	12,600
Lead	Ohio River				12,230		12,230

Source: Environmental Working Group. Compiled from U.S. Environmental Protection Agency, Toxics Release Inventory 1990-1994.

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Table 9

Toxic water pollution in West Virginia

Companies reporting toxic discharges to water (1990-1994)

City: Weirton, West Virginia

Facility: **Weirton Steel Corp.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		453,325	277,678	266,141	394,606	351,857	1,743,607
Sulfuric acid	Ohio River	10,770					10,770
Antimony	Harmon Creek			5,378	4,995		10,373
Chromium compounds	Harmon Creek	1,562	1,606	1,606	1,606	1,606	7,986
Nickel compounds	Harmon Creek					6,873	6,873
Ethylene glycol	Ohio River			1,462	3,721		5,183
Thiourea	Ohio River	566	465	720	757	595	3,103
1,1,1-Trichloroethane	Harmon Creek	2,179	640				2,819
Lead compounds	Harmon Creek	1,880				635	2,515
Nickel compounds	Ohio River					1,489	1,489
Nickel	Harmon Creek				1,146		1,146
Lead	Harmon Creek				880		880
1,1,1-Trichloroethane	Ohio River	288	47	104			439
Hydrochloric acid	Harmon Creek		82				82

City: Weirton, West Virginia

Facility: **Signode Consumable Prods.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		1	5	5	250	250	511
Lead	Ohio River	1	5	5	250	250	511

City: Williamstown, West Virginia

Facility: **Fenton Art Glass Co.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals					515	33	548
Zinc compounds	Ohio River				250		250
Zinc compounds	Williams Creek				250		250
Barium	Ohio River				5	14	19
Zinc (fume or dust)	Ohio River					14	14
Lead	Ohio River				5	5	10
Barium	Williams Creek				5		5