

Table 9

Toxic water pollution in Oklahoma

Companies reporting toxic discharges to water (1990-1994)

City: Ardmore, Oklahoma

Facility: **Total Petroleum Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		1,688	21,131	152,058	36,626	33,794	245,297
Diethanolamine	Sand Creek			130,000	8,200		138,200
Ammonia	Sand Creek	1,494	21,000	22,000	28,000	33,726	106,220
Phenol	Sand Creek	194	120	12	19	25	370
Cobalt compounds	Sand Creek				360		360
Chlorine	Sand Creek		11	46			57
Antimony compounds	Sand Creek				47		47
Nickel	Sand Creek					43	43

City: Ardmore, Oklahoma

Facility: **Uniroyal Goodrich Tire Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals				250	250	250	750
Zinc compounds	Hickory Creek			250	250	250	750

City: Broken Bow, Oklahoma

Facility: **Weyerhaeuser Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		250					250
Formaldehyde	Mt. Fork River	250					250

City: Catoosa, Oklahoma

Facility: **Terra Nitrogen**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		259,820	236,598	226,386	223,151	95,342	1,041,297
Ammonium nitrate (solution)	Verdigris River	213,000	190,000	193,000	165,000	88,000	849,000
Ammonia	Verdigris River	45,000	45,000	32,000	57,000	6,200	185,200
Methanol	Verdigris River	750	750	750	750	750	3,750
Copper compounds	Verdigris River	250	250	250	250	250	1,250
Zinc compounds	Verdigris River	320	98	136	151	142	847
Chromium compounds	Verdigris River		250	250			500
Nickel compounds	Verdigris River	250	250				500
Mixtures and other trade	Verdigris River	250					250

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City: Catoosa, Oklahoma

Facility: **Asec Mfg.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals			147	147	165	180	639
Nitric acid	Verdigris River		130	130	151	125	536
Nickel compounds	Verdigris River		3	3	2	55	63
Barium compounds	Verdigris River		14	14	12		40

City: Enid, Oklahoma

Facility: **Farmland Ind. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		3,050	22,200	23,960	33,250	36,360	118,820
Ammonia	Skeleton Creek	750	19,000	21,000	30,000	33,000	103,750
Methanol	Skeleton Creek	2,300	2,400	2,700	2,800	2,900	13,100
Ammonium nitrate (solution)	Skeleton Creek		250	250	250	250	1,000
Formaldehyde	Skeleton Creek		550	10			560
Zinc compounds	Skeleton Creek				200	210	410

City: Gore, Oklahoma

Facility: **Sequoyah Fuels Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals				1,600	2,100		3,700
Ammonia	Robert S. Kerr Reservoir			1,600	2,100		3,700

City: Muskogee, Oklahoma

Facility: **Fort Howard Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		4,870	10,705	6,000	7,450	4,900	33,925
Barium compounds	Arkansas River		4,500	4,100	3,700	2,300	14,600
Zinc compounds	Arkansas River	3,800	3,800				7,600
Ammonia	Arkansas River	490	1,700	1,400	1,500	1,600	6,690
Chloroform	Arkansas River	580	700	250	700	750	2,980
Manganese compounds	Arkansas River				1,300		1,300
1,2,4-Trimethylbenzene	Arkansas River		5	250	250	250	755

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City: Ponca City, Oklahoma

Facility: **Conoco Ponca City Refinery**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		1,731	10,789	14,214	16,940	33,738	77,412
Ammonia	Arkansas River	290	10,000	13,000	16,000	33,000	72,290
Phenol	Arkansas River	370	370	280			1,020
Chromium compounds	Arkansas River			400	350	240	990
Chromium	Arkansas River	620					620
Chlorine	Arkansas River				130	170	300
1,1,1-Trichloroethane	Arkansas River	35	35	44	46	41	201
Naphthalene	Arkansas River	35	35	44	46	41	201
Cumene	Arkansas River	35	35	44	46	41	201
Ethylbenzene	Arkansas River	35	35	44	46	41	201
Cyclohexane	Arkansas River	35	35	44	46	41	201
Xylene (mixed isomers)	Arkansas River	35	35	44	46	41	201
Methyl tert-butyl ether	Arkansas River	35	35	44	46	41	201
Cresol (mixed isomers)	Arkansas River	66	66	50			182
1,2,4-Trimethylbenzene	Arkansas River	35	3	44	46	41	169
Benzene	Arkansas River	35	35	44	46		160
Toluene	Arkansas River	35	35	44	46		160
Methyl ethyl ketone	Arkansas River	35	35	44			114

City: Pryor, Oklahoma

Facility: **Wil-Gro Fertilizer**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals					54,348	38,000	92,348
Ammonium nitrate (solution)	Pryor Creek				54,348	24,000	78,348
Ammonia	Pryor Creek					14,000	14,000

City: Pryor, Oklahoma

Facility: **Red Devil Inc.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals			500	255		250	1,005
Butyl benzyl phthalate	Chouteau Creek		250	250			500
Ethylene glycol	Chouteau Creek		250	5			255
Ethylene glycol	Red Devil Retention Pond					250	250

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City: Shawnee, Oklahoma
 Facility: **TDK Ferrites Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals			106	472	2,051	243	2,872
Manganese compounds	Rock Creek		30	77	928	128	1,163
Zinc compounds	Rock Creek		66	306	577	115	1,064
Barium compounds	Rock Creek			12	499		511
Chromium compounds	Rock Creek		10	77	47		134

City: Stillwater, Oklahoma
 Facility: **National Standard Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals					2,177	1,316	3,493
Zinc compounds	Boomer Creek				1,324	730	2,054
Lead	Boomer Creek				539	404	943
Copper compounds	Boomer Creek				314	182	496

City: Tinker Afb, Oklahoma
 Facility: **U.S. Air Force**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals				277		417	694
Nickel	Soldier Creek			57		121	178
Chromium compounds	Soldier Creek					173	173
Chromium	Soldier Creek			166			166
Manganese	Soldier Creek					63	63
Copper	Soldier Creek					48	48
Tetrachloroethylene	Soldier Creek			26			26
Toluene	Soldier Creek			15			15
Methyl ethyl ketone	Soldier Creek					11	11
Xylene (mixed isomers)	Soldier Creek			8			8
Phenol	Soldier Creek			3		1	4
Xylene (mixed isomers)	Crutcho Creek			2			2

City: Tulsa, Oklahoma
 Facility: **Sinclair Oil Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		21,910	15,165	13,473	16,289	11,604	78,441
Ammonia	Arkansas River	20,410	14,000	11,803	15,016	10,538	71,767
Chromium	Arkansas River	750	600	379	289	132	2,150
Barium	Arkansas River			450	561	595	1,606
Phenol	Arkansas River	250	400	395	315	150	1,510
Arsenic	Arkansas River	250	65	250	68	7	640
Lead	Arkansas River	250	100			34	384
Copper	Arkansas River			96	40	6	142
Selenium	Arkansas River					113	113
Lead compounds	Arkansas River			100			100
Cobalt	Arkansas River					17	17

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

Page 4 of 7

Table 9

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Companies reporting toxic discharges to water (1990-1994)

City: Tulsa, Oklahoma

Facility: **Sinclair Oil Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		21,910	15,165	13,473	16,289	11,604	78,441
Nickel	Arkansas River					11	11
Mercury	Arkansas River					1	1

City: Tulsa, Oklahoma

Facility: **Sun Refining & Marketing Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		13,059	15,384	3,134	5,140	6,725	43,442
Ammonia	Arkansas River	12,000	15,000	2,800	4,300	6,000	40,100
Zinc compounds	Arkansas River	620	260	220	240	200	1,540
Methyl ethyl ketone	Arkansas River				390	340	730
Chromium compounds	Arkansas River	310					310
Methanol	Arkansas River		1	1	88	98	188
Toluene	Arkansas River	19	21	23	20	18	101
Benzene	Arkansas River	15	17	15	20	17	84
1,2,4-Trimethylbenzene	Arkansas River	15	17	15	20	17	84
Ethylbenzene	Arkansas River	15	17	15	20	17	84
Xylene (mixed isomers)	Arkansas River	15	17	15	20	17	84
Naphthalene	Arkansas River	28	17	15	22		82
Cyclohexane	Arkansas River	8	17	15		1	41
Lead compounds	Arkansas River	14					14

City: Tulsa, Oklahoma

Facility: **H & L Tooth Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals					38,500		38,500
Ethylene glycol	Unnamed Tributary To Bird				38,500		38,500

City: Tulsa, Oklahoma

Facility: **McDonnell Douglas**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals			5,300				5,300
Sulfuric acid	Unnamed Tributary To Mingo		5,300				5,300

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City: Tulsa, Oklahoma

Facility: **Rogers Galvanizing Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals				269	255	255	779
Zinc compounds	Arkansas River			264	250	250	764
Lead	Arkansas River			5	5	5	15

City: Tulsa, Oklahoma

Facility:

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals				105	255	255	615
Zinc compounds	Cherry Creek			105	250	250	605
Lead	Arkansas River				5		5
Lead	Cherry Creek					5	5

City: Tulsa, Oklahoma

Facility: **Rockwell Intl. Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		250					250
Ethylene glycol	Unnamed Tributary To Mingo	250					250

City: Tulsa, Oklahoma

Facility: **Ozark-Mahoning**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		105	5				110
Phosphoric acid	Arkansas River	100					100
Hydrogen fluoride	Arkansas River		5				5
Chromium	Arkansas River	5					5

City: Valliant, Oklahoma

Facility: **Weyerhaeuser Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		66,070	20,310	13,800	500	600	101,280
Ethylene glycol	Garland Creek	63,800	440				64,240
Catechol	Garland Creek	250	18,270	13,400	200	300	32,420
Ammonia	Garland Creek	2,000	1,600	400	300	300	4,600
Chlorine	Garland Creek	5					5
Hydrochloric acid	Garland Creek	5					5
Sulfuric acid	Garland Creek	5					5
Methanol	Garland Creek	5					5

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Companies reporting toxic discharges to water (1990-1994)

City: Woodward, Oklahoma

Facility: **Terra Nitrogen Corpn.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		147,250	126,250	22,350	11,350	11,350	318,550
Ammonium nitrate (solution)	North Canadian River	132,000	110,000	20,000	10,000	3,700	275,700
Ammonia	North Canadian River	15,000	16,000	2,100	1,100	7,400	41,600
Methanol	North Canadian River	250	250	250	250	250	1,250

City: Wynnewood, Oklahoma

Facility: **Kerr-McGee Refining Corp.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		22,786	24,040	3,740	5,740	4,870	61,176
Ammonia	Turkey Sandy Creek	22,781	23,000	3,700	5,700	1,300	56,481
Ammonia	Washita River					3,500	3,500
Chlorine	Turkey Sandy Creek		1,000				1,000
Diethanolamine	Turkey Sandy Creek	5	5	5	5	5	25
Benzene	Turkey Sandy Creek		5	5	5	5	20
1,2,4-Trimethylbenzene	Turkey Sandy Creek		5	5	5	5	20
Ethylbenzene	Turkey Sandy Creek		5	5	5	5	20
Toluene	Turkey Sandy Creek		5	5	5	5	20
Xylene (mixed isomers)	Turkey Sandy Creek		5	5	5	5	20
1,1,1-Trichloroethane	Turkey Sandy Creek			5	5	5	15
Glycol ethers	Turkey Sandy Creek		5	5	5		15
Benzene	Washita River					5	5
1,1,1-Trichloroethane	Washita River					5	5
1,2,4-Trimethylbenzene	Washita River					5	5
Ethylbenzene	Washita River					5	5
Toluene	Washita River					5	5
Cyclohexane	Turkey Sandy Creek		5				5
Diethanolamine	Washita River					5	5
Xylene (mixed isomers)	Washita River					5	5