

Table 9

Toxic water pollution in Iowa

Companies reporting toxic discharges to water (1990-1994)

City: Amana, Iowa

Facility: **Amana Refrigeration Inc.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		1,565	260	1,250	1,005	1,260	5,340
Manganese	Iowa River	1,300			250	250	1,800
Zinc compounds	Iowa River	250		750	250	250	1,500
Xylene (mixed isomers)	Iowa River	5		250	250	250	755
Chromium	Iowa River				250	250	500
Glycol ethers	Iowa River	5		250	5	5	265
Xylene (mixed isomers)	Unnamed Tributary & Mill Race		250				250
Nickel	Iowa River					250	250
Manganese	Unnamed Tributary & Mill Race		5				5
Copper	Iowa River					5	5
Glycol ethers	Unnamed Tributary & Mill Race		5				5
Ethylbenzene	Iowa River	5					5

City: Atlantic, Iowa

Facility: **Glacier Vandervell Inc.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		500	500	46	37	19	1,102
Lead	East Nishnabotna River	250		37	32	14	333
Copper	East Nishnabotna River	250		9	5	5	269
Lead	Nishnabotna River		250				250
Copper	Nishnabotna River		250				250

City: Bettendorf, Iowa

Facility: **Sivyer Steel Corp.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals					250	3,274	3,524
Manganese	Mississippi River				250	2,999	3,249
Molybdenum trioxide	Mississippi River					250	250
Nickel	Mississippi River					18	18
Chromium	Mississippi River					7	7

City: Boyden, Iowa

Facility: **Dethmers Mfg. Co.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		5,310					5,310
Phosphoric acid	Boyden Creek	4,310					4,310
Xylene (mixed isomers)	Boyden Creek	750					750
1,1,1-Trichloroethane	Boyden Creek	250					250

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Companies reporting toxic discharges to water (1990-1994)

City: Camanche, Iowa

Facility: **Arcadian Fertilizer L.P.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		170,445	302,928	154,882	418,871	376,851	1,423,977
Ammonium nitrate (solution)	Mississippi River	134,495	139,930	117,273	205,246	192,914	789,858
Ammonium nitrate (solution)	Eastern Tributary Rock Creek		76,598	29,538	122,421	66,363	294,920
Ammonia	Mississippi River	8,680	48,890	8,071	65,970	103,895	235,506
Methanol	Mississippi River	21,870	34,800				56,670
Ammonia	Eastern Tributary Rock Creek				25,234	13,679	38,913
Diethanolamine	Mississippi River	5,400	2,710				8,110

City: Cedar Rapids, Iowa

Facility: **Cargill Corn Milling**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals			600				600
Hydrochloric acid	Red Cedar River		600				600

City: Cedar Rapids, Iowa

Facility: **Adm**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals				500			500
Ammonia	Prairie Creek			250			250
Chlorine	Prairie Creek			250			250

City: Charles City, Iowa

Facility: **Salsbury Chemicals Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals			6,766	6,691	3,553	23,514	40,524
Ammonia	Cedar River			3,700	3,400	22,000	29,100
Manganese compounds	Cedar River		6,100	2,400			8,500
Arsenic compounds	Cedar River		500	460		1,221	2,181
Phenol	Cedar River		160	120	75	40	395
Acetonitrile	Cedar River				50	200	250
1,1,2-Trichloroethane	Cedar River		5	9	28	53	95
Acetone	Cedar River		1	2			3

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Toxic water pollution in Iowa

Companies reporting toxic discharges to water (1990-1994)

City: Charles City, Iowa

Facility: **Solvay Animal Health Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		4,025					4,025
Manganese compounds	Cedar River	3,600					3,600
Arsenic compounds	Cedar River	380					380
Phenol	Cedar River	40					40
1,1,2-Trichloroethane	Cedar River	5					5

City: Clinton, Iowa

Facility: **ADM**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		90,260	870			3,600	94,730
Ammonia	Mississippi River	90,000	870			3,600	94,470
Chlorine	Mississippi River	250					250
Hydrochloric acid	Mississippi River	5					5
Sulfuric acid	Mississippi River	5					5

City: Clinton, Iowa

Facility: **Collis Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		255	255	250	255	5	1,020
Zinc compounds	Unknown	250	250	250	250		1,000
Xylene (mixed isomers)	Unknown	5	5		5	5	20

City: Columbus Junction, Iowa

Facility: **IBP Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		1,221,756	930,000	414,000	1,900	2,156	2,569,812
Ammonia	Cedar River	867,447	670,000	294,000	800	750	1,832,997
Ammonia	Iowa River	354,309	260,000	120,000	1,100	1,300	736,709
Chlorine	Iowa River					62	62
Chlorine	Cedar River					44	44

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Companies reporting toxic discharges to water (1990-1994)

City: Creston, Iowa

Facility: **Green Valley Chemical Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		750	250	250	250	250	1,750
Ammonia	Thompson River	750		250	250	250	1,500
Ammonia	Thomas Gully		250				250

City: Denison, Iowa

Facility: **IBP Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		1,500					1,500
Ammonia	Boyer River	1,500					1,500

City: Des Moines, Iowa

Facility: **Qualis Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals					8,297		8,297
Copper compounds	Des Moines River				8,297		8,297

City: Des Moines, Iowa

Facility: **Titan Tire Corporatoin**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals						6,437	6,437
Sulfuric acid	Dean Lake					6,437	6,437

City: Dubuque, Iowa

Facility: **John Deere Dubuque Works**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		3,692	4,070	9,112	545	599	18,018
1,1,1-Trichloroethane	Mississippi River	3	2	5,827			5,832
Chlorine	Mississippi River	2,100	2,237				4,337
Glycol ethers	Mississippi River	470	610	2,765			3,845
Chlorine	Little Maquoketa River	250	919	126	450	267	2,012
Xylene (mixed isomers)	Mississippi River	425	112	176			713
Diethanolamine	Mississippi River	100	33	29	35	332	529
Ethylene glycol	Mississippi River	60	60	60	60		240
Lead compounds	Mississippi River	60	53	56			169
Ethylbenzene	Mississippi River	100	26	28			154
Chromium compounds	Mississippi River	120					120
Xylene (mixed isomers)	Little Maquoketa River	4	14	35			53
Lead compounds	Little Maquoketa River		4	4			8
Ethylbenzene	Little Maquoketa River			4			4
Trichloroethylene	Little Maquoketa River			2			2

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Companies reporting toxic discharges to water (1990-1994)

City: Dubuque, Iowa

Facility: **FDL Foods Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals			250	250	250	250	1,000
Ammonia	Bee Branch Retention Basin		250	250			500
Ammonia	Bee Branch				250	250	500

City: Dubuque, Iowa

Facility: **Systems Bio Ind. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals			40	40	133	31	244
Sulfuric acid	Peosta Channel				90		90
Hydrochloric acid	Peosta Channel				43	31	74
Sulfuric acid	Mississippi River		40				40
Sulfuric acid	Unknown			40			40

City: Eddyville, Iowa

Facility: **Cargill Corn Milling**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		635,573	267,625	73,164	43,366	3,581	1,023,309
Ammonia	Des Moines River	547,916	237,695	73,164	43,366	3,581	905,722
Ammonium nitrate (solution)	Des Moines River	87,657	29,930				117,587

City: Fort Dodge, Iowa

Facility: **Farmland Ind.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		4,534	5,715	29,100	22,795	10,778	72,922
Ammonium nitrate (solution)	Brushy Creek			19,646	8,106	4,069	31,821
Ammonia	Des Moines River	4,284	5,165	8,730	10,963	2,394	31,536
Ammonia	Brushy Creek			139	3,108	3,807	7,054
Methanol	Des Moines River	250	550	585	618	508	2,511

City: Fort Madison, Iowa

Facility: **Climax Molybdenum Co.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		14,280	10,400	978	2,306	5,531	33,495
Molybdenum trioxide	Mississippi River	12,800	9,000	900	2,100	4,875	29,675
Ammonia	Mississippi River	1,400	1,400	78	206	656	3,740
Manganese compounds	Mississippi River	80					80

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Toxic water pollution in Iowa

Companies reporting toxic discharges to water (1990-1994)

City: Fort Madison, Iowa

Facility: **Dial Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		5,900	4,600				10,500
Chlorine	Mississippi River	5,900	4,600				10,500

City: Fort Madison, Iowa

Facility: **Du Pont**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		1,504					1,504
Ammonia	Mississippi River	1,483					1,483
Chromium compounds	Mississippi River	21					21

City: Fort Madison, Iowa

Facility: **Sheaffer Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		260	260	260	5	5	790
Chlorine	Mississippi River	250	250	250			750
Copper	Mississippi River	5	5	5	5	5	25
Trichloroethylene	Mississippi River	5	5	5			15

City: Keokuk, Iowa

Facility: **Roquette America Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		30,000	72,000	105,485	97,500	57,250	362,235
Ammonia	Mississippi River	30,000	72,000	105,485	97,500	57,000	361,985
Hydrochloric acid	Mississippi River					250	250

City: Keokuk, Iowa

Facility: **Keokuk Ferro-Sil Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals			260	10	15	15	300
Nickel compounds	Mississippi River		250	5	5	5	265
Chromium compounds	Mississippi River		5	5	5	5	20
Manganese compounds	Mississippi River		5		5	5	15

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Companies reporting toxic discharges to water (1990-1994)

City: Manchester, Iowa

Facility: **Exide Corp.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		14		10	255	115	394
Lead compounds	Maquoketa River	14			255	115	384
Lead compounds	Unknown			10			10

City: Manning, Iowa

Facility: **Ag Processing Inc.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		1,800					1,800
Chlorine	West Nishnabotna River	1,800					1,800

City: Middletown, Iowa

Facility: **Mason & Hanger Iowa Army**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		3,444					3,444
Chlorine	Brush Creek	2,845					2,845
Chlorine	Skunk River	599					599

City: Muscatine, Iowa

Facility: **Monsanto Co.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		90,131	73,009	122,418	3,251	2,842	291,651
Ammonia	Mississippi River	87,000	69,000	120,000	1,300	1,700	279,000
n-Butyl alcohol	Mississippi River		1,800	1,300	1,600	700	5,400
Chlorine	Mississippi River	1,900	1,500	530			3,930
Formaldehyde	Mississippi River	340	430	410	180	380	1,740
1,2-Dichloroethane	Mississippi River	740	160	110	130	3	1,143
Trifluralin	Mississippi River	2	65	30		1	98
Styrene	Mississippi River	16	17	16	17	13	79
Acrylonitrile	Mississippi River	22	16	8	15	15	76
1,2,4-Trimethylbenzene	Mississippi River	57					57
Aniline	Mississippi River	5	9	4	6	3	27
Toluene	Mississippi River					27	27
Ethylbenzene	Mississippi River	4	8	8			20
Cumene	Mississippi River	14					14
Xylene (mixed isomers)	Mississippi River	14					14
Acetone	Mississippi River	3	4	2	3		12
Chlorobenzene	Mississippi River	7					7
Naphthalene	Mississippi River	7					7

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Companies reporting toxic discharges to water (1990-1994)

City: Newton, Iowa

Facility: **Maytag & Admiral Prods.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		635	441	420	278	140	1,914
n-Butyl alcohol	Cherry Creek	143	150	150	140	140	723
Zinc compounds	Cherry Creek	114	130	120	128		492
Chlorine	Cherry Creek	143	140	150			433
Nickel compounds	Cherry Creek	128					128
Manganese	Cherry Creek	85					85
Barium compounds	Cherry Creek	20	21				41
Copper	Drainage Of Cherry Creek				10		10
Chromium	Cherry Creek	2					2

City: Osceola, Iowa

Facility: **Paul Mueller Co.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals				1,250	1,250	1,250	3,750
Aluminum (fume or dust)	White Breast			250	250	250	750
Manganese	White Breast			250	250	250	750
Nickel	White Breast			250	250	250	750
Chromium	White Breast			250	250	250	750
Copper	White Breast			250	250	250	750

City: Oskaloosa, Iowa

Facility: **Clow Valve Co.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		750	51		15	6	822
Lead	Spring Creek Tributary	250					250
Manganese	Spring Creek Tributary	250					250
Copper	Spring Creek	250					250
Copper	S. Skunk River		36				36
Lead	S. Skunk River		13				13
Copper	South Skunk River				6	3	9
Lead	South Skunk River				5	2	7
Manganese	South Skunk River				4	1	5
Manganese	S. Skunk River		2				2

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Toxic water pollution in Iowa

Companies reporting toxic discharges to water (1990-1994)

City: Ottumwa, Iowa
Facility: **Excel Corp.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		3,232	42,289	32,726	70,787	55,606	204,640
Ammonia	Des Moines River	3,232	42,289	32,726	70,787	55,606	204,640

City: Perry, Iowa
Facility: **IBP Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		2,224	2,600	3,000	3,900	1,900	13,624
Ammonia	North Raccoon River	2,224	2,600	3,000	3,900	1,900	13,624

City: Postville, Iowa
Facility: **Allied-signal Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals				33	250		283
Acetone	Roberts Creek			20	250		270
Phenol	Roberts Creek			13			13

City: Riverdale, Iowa
Facility: **Alcoa**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		4,252	3,270	2,280	2,120	1,105	13,027
Tetrachloroethylene	Mississippi River	1,052	350	520	540	161	2,623
Copper	Mississippi River		950	1,200	280	131	2,561
Chromium	Mississippi River		230	560	1,300	443	2,533
Zinc (fume or dust)	Mississippi River	1,700	240			370	2,310
Methanol	Mississippi River	250	250				500
Acetone	Mississippi River	250	250				500
Methyl ethyl ketone	Mississippi River	250	250				500
Ethylene glycol	Mississippi River	250	250				500
Methyl isobutyl ketone	Mississippi River	250	250				500
n-Butyl alcohol	Mississippi River		250				250
Toluene	Mississippi River	250					250

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Toxic water pollution in Iowa

Companies reporting toxic discharges to water (1990-1994)

City: Sergeant Bluff, Iowa

Facility: **Terra Intl. Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		97,260	235,260	280,260	330,260	270,505	1,213,545
Ammonia	Missouri River	71,000	160,000	170,000	180,000	140,000	721,000
Ammonium nitrate (solution)	Missouri River	26,000	75,000	110,000	150,000	130,000	491,000
Methanol	Missouri River	250	250	250	250	250	1,250
Nitric acid	Missouri River	5	5	5	5	250	270
Formaldehyde	Missouri River	5	5	5	5	5	25

City: Sergeant Bluff, Iowa

Facility: **Kind & Knox Gelatin**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		31,020	32,020	34,020	34,000	34,000	165,060
Ammonia	Missouri River	31,000	32,000	34,000		34,000	131,000
Ammonia	New Lake				34,000		34,000
Chlorine	Missouri River	20	20	20			60

City: Sergeant Bluff, Iowa

Facility: **Ag Processing Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		3,752	3,600	2,880	2,062	1,873	14,167
Chlorine	Missouri River	3,752	3,600	2,880	2,062	1,873	14,167

City: Tama, Iowa

Facility: **Tama Meat Packing Inc.**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals						7,400	7,400
Ammonia	Iowa River					7,400	7,400

City: Tama, Iowa

Facility: **Packaging Corp. Of America**

		Pounds of toxic chemicals discharged to water					
Chemical discharged	Receiving water	1990	1991	1992	1993	1994	1990-1994
All toxic chemicals		45	500	250	2,500	250	3,545
Ammonia	Iowa River	5	250	250	2,500	250	3,255
Chlorine	Cherry Lake	5	250				255
Ammonia	Cherry Lake	5					5
Ammonia	Mill Creek, MS	5					5
Hydrochloric acid	Iowa River	5					5
Hydrochloric acid	Cherry Lake	5					5
Hydrochloric acid	Mill Creek, MS	5					5
Chlorine	Iowa River	5					5
Chlorine	Mill Creek, MS	5					5

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Companies reporting toxic discharges to water (1990-1994)

City: Waterloo, Iowa

Facility: **John Deere Fndy.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		10	623	626	2,921	5	4,185
Ammonia	Cedar River				2,900		2,900
Manganese	Cedar River		610	610			1,220
Phenol	Cedar River	7	13	11	5	5	41
Bis(2-ethylhexyl) adipate	Cedar River				12		12
Chromium	Cedar River			5			5
1,2,4-Trimethylbenzene	Cedar River				4		4
Lead	Cedar River	2					2
Cadmium	Cedar River	1					1

City: Waterloo, Iowa

Facility: **John Deere Waterloo Works**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals				196	341	161	698
Zinc compounds	Blowers Creek			190	250	150	590
Lead compounds	Blowers Creek			4	65	2	71
Chromium compounds	Blowers Creek			2	26	9	37

City: West Burlington, Iowa

Facility: **Ge Co.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		1,437	15	15	15	5	1,487
Ethylene glycol	Unknown	1,157					1,157
Copper	Unknown	250					250
Copper compounds	Honey Creek		5	5	5	5	20
1,1,1-Trichloroethane	Honey Creek		5	5	5		15
Freon 113	Honey Creek		5	5	5		15
1,1,1-Trichloroethane	Unknown	5					5
1,1,1-Trichloroethane	Storm Water-honey Creek	5					5
Ethylene glycol	Storm Water-honey Creek	5					5
Copper	Storm Water-honey Creek	5					5
Nitric acid	Storm Water-honey Creek	5					5
Hydrochloric acid	Storm Water-honey Creek	5					5

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Companies reporting toxic discharges to water (1990-1994)

City: Wiltonjunction, Iowa

Facility: **North Star Steel Co.**

Chemical discharged	Receiving water	Pounds of toxic chemicals discharged to water					1990-1994
		1990	1991	1992	1993	1994	
All toxic chemicals		16,260	13				16,273
Ethylene glycol	Mud Creek	15,500					15,500
Chromium compounds	Mud Creek	250					250
Zinc compounds	Mud Creek	250					250
Manganese compounds	Mud Creek	250					250
Lead compounds	Mud Creek		13				13
Sulfuric acid	Mud Creek	5					5
Phosphoric acid	Mud Creek	5					5