

1999 Hazardous Air Pollutants
by County
(tons/year)

Pollutant (tons/year)	Beaver	Box Elder	Cache	Carbon	Daggett	Davis	Duchesne	Emery	Grand	Iron	Juab	Millard	Morgan	Salt Lake	San Juan
1,1,2,2-Tetrachloroethane				0.1670		0.0772								0.3593	
1,1,2-Trichloroethane				0.0144		0.0000									
1,2,4-Trichlorobenzene						0.0021									
1,2-Dibromo-3-chloropropane														0.0002	
1,2-Diphenylhydrazine															
1,2-Epoxybutane		0.2207												0.0030	
1,3-Butadiene		0.0000				0.0149								0.0189	
1,3-Dichloropropene															
1,4-Dichlorobenzene(p)		0.0004		0.0275		0.0572									
1,4-Dioxane (1,4-Diethyleneoxide)		1.3242												0.0444	
2,2,4-Trimethylpentane		0.0006			0.0153	2.0582			0.0000					1.0362	
2,3,7,8-Tetrachlorodibenzo-p-dioxin						0.0000						0.0000			
2,4,5-Trichlorophenol															
2,4,6-Trichlorophenol						0.0009									
2,4-Dinitrophenol		0.1493													
2,4-Dinitrotoluene				0.0000				0.0010							
2,4-Toluene diisocyanate		0.0173												0.0898	
2-Acetylaminofluorene															
2-Chloroacetophenone				0.0008				0.0251				0.0184			
2-Methyl-1-butene															
3,3'-Dimethyl benzidine															
4,4'-Methylenedianiline		0.3481													
4-Aminobiphenyl															
4-Nitrophenol															
Acetaldehyde		0.0406	0.0293	0.0679		0.0580		2.0448				1.4948		0.0843	0.2791
Acetone														0.1040	
Acetonitrile															
Acetophenone				0.0018				0.0538							
Acrolein		0.0001		0.1147	0.1510	0.0179	0.0100	1.0401	0.0030			0.7605		0.1312	0.0192
Acrylonitrile				0.3005		0.3837								0.6476	
Allyl alcohol [2-Propen-1-ol]															
Allyl chloride															
Ammonia						36.5300						166.6825			
Ammonia (anhydrous)						108.6000								0.0055	
Aniline															
Antimony Compounds		2.2680		0.0021		0.0082		0.0269			0.0041	0.0176	0.6098	0.2672	
Arsenic Compounds		0.2179	0.0000	0.0602		0.0024		0.0955			0.0088	0.1300	0.0117	11.8504	
Asbestos															
Barium Compounds											0.3051				
Benzene (including benzene from gasoline)		0.0334	0.0160	1.2902	1.9749	4.2875	21.3419	4.6634	3.9072		6.3150	0.2365		2.8450	4.3607
Benidine															
Benzo(a)anthracene		0.0000													
Benzyl chloride				0.1690		0.0107		2.5106				1.8357		0.1556	
Beryllium Compounds		0.0251	0.0000	0.0034		0.0000		0.0067			0.0023	0.0460	0.0004	0.1083	
Biphenyl						0.0172		0.0061							
Bis(2-ethylhexyl)phthalate (DEHP)				0.0087				0.2618				0.1914			
Bromoform				0.0047				0.1399				0.1023			
Butane						0.1211									

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1,1,2,2-Tetrachloroethane				0.0030				
1,1,2-Trichloroethane				0.0005				
1,2,4-Trichlorobenzene				0.0029				
1,2-Dibromo-3-chloropropane				0.0286				
1,2-Diphenylhydrazine				0.0029				
1,2-Epoxybutane						0.0024		
1,3-Butadiene				0.0033				
1,3-Dichloropropene				0.0013				
1,4-Dichlorobenzene(p)			0.0000	0.0032				0.0000
1,4-Dioxane (1,4-Diethyleneoxide)						1.1341		
2,2,4-Trimethylpentane			0.1156	0.0000				
2,3,7,8-Tetrachlorodibenzo-p-dioxin								
2,4,5-Trichlorophenol				0.0029				
2,4,6-Trichlorophenol				0.0029				
2,4-Dinitrophenol				0.0141				
2,4-Dinitrotoluene				0.0029				
2,4-Toluene diisocyanate								0.0240
2-Acetylaminofluorene				0.0286				
2-Chloroacetophenone								
2-Methyl-1-butene								
3,3'-Dimethyl benzidine				0.0056				
4,4'-Methylenedianiline								
4-Aminobiphenyl				0.0056				
4-Nitrophenol				0.0141				
Acetaldehyde	0.0000		0.0137	0.0005	0.2811	0.0127	0.0062	0.0504
Acetone				0.0045				
Acetonitrile						0.4772		
Acetophenone				0.0029				
Acrolein			0.0117	0.0001	0.0042	0.0035	0.0049	
Acrylonitrile				0.0068		0.0432		
Allyl alcohol [2-Propen-1-ol]				0.0334				
Allyl chloride				0.0000				
Ammonia								
Ammonia (anhydrous)						13.7900		
Aniline				0.0029				
Antimony Compounds				0.0012				0.0065
Arsenic Compounds		0.0000	0.0000	0.0027		0.0000		0.0001
Asbestos						0.0233		
Barium Compounds	0.0001	0.0001						
Benzene (including benzene from gasoline)	0.0001	0.0485	1.0230	0.9419	0.0635	9.0439	0.0079	0.0287
Benzidine				0.0286				
Benzo(a)anthracene								
Benzyl chloride								
Beryllium Compounds		0.0001	0.0000	0.0002				0.0000
Biphenyl				0.0029		0.0630		
Bis(2-ethylhexyl)phthalate (DEHP)				0.0209				
Bromoform				0.0014				
Butane	0.0483			0.0033				

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Cadmium Compounds	0.0000	0.0758	0.0001	0.0069		0.0284	0.0000	0.0735			0.0029	0.0315	0.0024	2.4572	
Carbon disulfide				0.0550		0.0122		0.4663				0.3409			
Carbon oxysulfide[Carbon oxide sulfide (COS)]				0.0265		0.0122								0.0568	
Carbon tetrachloride				0.0005											
Catechol														0.1585	
Chlorine		0.1380				0.1086								0.2607	
Chlorobenzene				0.0276		0.1352		0.0789							
Chloroform		0.7420		0.0095				0.2116						0.5198	
Chromium Compounds		0.2619	0.0001	0.0878		0.0138	0.0002	0.5021			0.0959	0.2630	0.0204	0.6981	
Cobalt Compounds		0.0398		0.0205		0.0037		0.1052			0.0041	0.0328		0.1383	
Coke Oven Emissions															
Copper Compounds				0.0001							0.0407				
Cresols/Cresylic acid (isomers and mixture)						0.0030									
Cumene		0.0002		0.0006		0.3443		0.0156						0.3418	
Cyanide Compounds				0.9886				8.9650				6.5560		16.4697	
Cyclohexane (hexamethylene)		0.0001				0.5962									
Dibenzofurans												0.0000		0.0000	
Dibutylphthalate														0.0105	
Diethanolamine															
Dimethyl aminoazobenzene															
Dimethyl formamide														0.0018	
Dimethyl phthalate						0.5082								1.3347	
Dimethyl sulfate				0.0190				0.1722				0.1259			
Ethane															
Ethyl benzene		1.1241	0.5229	0.4492	0.0000	0.6264		0.3371	1.0142					12.1561	0.3215
Ethyl chloride (Chloroethane)				0.0770				0.1506							
Ethyl mercaptan[Ethanethiol]															
Ethylene dibromide (Dibromoethane)				0.0003		0.0001		0.0043				0.0031		0.0004	
Ethylene dichloride (1,2-Dichloroethane)				0.0413				0.1435						1.4464	
Ethylene glycol			1.2665			0.1375								4.7243	
Ethylene Glycol Monobutyl ether		0.0272				1.7254								0.4834	
Ethylene oxide														5.2000	
Ethylene[Ethene]						0.0013									
Ethylidene dichloride (1,1-Dichloroethane)				0.2080										0.2510	
Fluorine												0.0311			
Formaldehyde	0.0128	0.2980	0.0429	0.8547	3.4770	4.1592	3.4671	0.8612	5.9655	3.4905	0.2016	0.6685		11.9765	1.5692
Furan				0.0000		0.0001		0.0000						0.0000	0.0000
Glycol Ethers		0.3821				0.8470								20.5320	
Heptachlor															
Hexachlorobenzene		0.1219													
Hexachlorobutadiene															
Hexachlorocyclopentadiene															
Hexachloroethane															
Hexamethylene-1,6-diisocyanate						0.0013								1.6030	
Hexane		4.4232	1.1296	0.5150	0.0000	17.3685	3.0095	0.2403	0.4694		7.1280	0.1757		17.8573	10.9867
Hydrochloric acid (Hydrogen chloride)		411.0210		251.6173		1,287.3809		358.5746			55.2545	48.4267		18.3845	0.6383
Hydrocyanic acid															
Hydrogen fluoride (Hydrofluoric acid)				54.2015		2.4414		149.4962				9.6154		15.3810	

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Cadmium Compounds	0.0000	0.0000	0.0000	0.0018		0.0001		0.0007
Carbon disulfide				0.0028				
Carbon oxysulfide[Carbon oxide sulfide (COS)]				0.0003		0.3074		
Carbon tetrachloride				0.0002				
Catechol								
Chlorine				22,352.1925				71.1009
Chlorobenzene				0.0010				
Chloroform				0.0009				
Chromium Compounds		0.0009	0.0000	0.0047		0.0795		0.0696
Cobalt Compounds			0.0000	0.0364		0.0053		0.0015
Coke Oven Emissions						27.1026		
Copper Compounds		0.0002						
Cresols/Cresylic acid (isomers and mixture)								
Cumene						0.2786		
Cyanide Compounds						0.0000		
Cyclohexane (hexamethylene)								
Dibenzofurans				0.0029		0.0049		
Dibutylphthalate				0.0029		0.2186		
Diethanolamine								0.0000
Dimethyl aminoazobenzene				0.0035				
Dimethyl formamide						0.0217		
Dimethyl phthalate				0.0029				0.0425
Dimethyl sulfate								
Ethane	4.0492			0.3694				
Ethyl benzene		0.0074	0.0031	0.1355		5.7741		0.3015
Ethyl chloride (Chloroethane)				0.0010				
Ethyl mercaptan[Ethanethiol]				0.0016				
Ethylene dibromide (Dibromoethane)						0.0000		
Ethylene dichloride (1,2-Dichloroethane)				0.0004				
Ethylene glycol						0.1300		0.0137
Ethylene Glycol Monobutyl ether								
Ethylene oxide						0.0326		
Ethylene[Ethene]								
Ethylidene dichloride (1,1-Dichloroethane)				0.0028				
Fluorine								
Formaldehyde	0.0022	0.1276	1.2532	0.0241	0.5289	0.3081	0.3694	0.1474
Furan				0.0001				
Glycol Ethers				0.0000		6.3405		2.9655
Heptachlor				0.0286				
Hexachlorobenzene				0.0029				
Hexachlorobutadiene				0.0029				
Hexachlorocyclopentadiene				0.0056				
Hexachloroethane				0.0070				
Hexamethylene-1,6-diisocyanate						0.0015		0.0169
Hexane	0.0414	0.0005	0.3863	0.4488		0.6992		1.1077
Hydrochloric acid (Hydrogen chloride)				1,060.2858				1.4454
Hydrocyanic acid						0.0135		
Hydrogen fluoride (Hydrofluoric acid)				0.2747		0.0000		0.0560

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Hydrogen sulfide	43.7400													2.6352	
Hydroquinone														0.0356	
Isophorone				0.0691				2.0802				1.5210		0.0251	
Lead		0.0671	0.0000	0.0785		0.0087		0.2731			0.0407	0.0795		43.8234	
Lead Compounds		1.1371				0.2667					0.0296			0.0025	
m-Xylenes														5.4675	
Manganese Compounds		1.2796	0.0005	0.1441		0.0240		0.6793			0.1017	0.1284		0.6303	
Mercury Compounds		0.0675	0.0000	0.0329		0.0991		0.2980			0.0097	0.0662	0.0336	0.0381	
Methane			1.1553											0.4228	
Methanol		1.3283				1.2493								27.5286	
Methoxychlor															
Methyl bromide (Bromomethane)				0.0633				0.5739				0.4196			
Methyl chloride (Chloromethane)				0.1177				1.9009				1.3899		0.0165	
Methyl chloroform (1,1,1-Trichloroethane)		50.6290		0.0575		0.7966		0.0717						4.5203	
Methyl ethyl ketone (2-Butanone)		4.0018	1.4928	0.5040		14.8143		1.3988			0.9250	1.0227		20.2470	
Methyl hydrazine				0.0673				0.6097				0.4458		0.0302	
Methyl isobutyl ketone (Hexone)		0.0186		0.1675		2.4707								12.0449	
Methyl isocyanate						0.0098									
Methyl methacrylate				0.0024		0.3600		0.0717						1.7708	
Methyl tert butyl ether				0.0042		4.8111		0.1255							
Methylene chloride (Dichloromethane)		0.8649		1.1216		1.0384		1.0401				0.7605		15.7402	
Methylene diphenyl diisocyanate (MDI)		0.0379				0.0150								1.4580	
Misc - Unspecified VOCs		0.5362												82.8930	
N,N-Diethyl aniline (N,N-Dimethylaniline)															
N-Nitrosodimethylamine															
N-Nitrosomorpholine															
Naphthalene		0.0069	0.0019	0.0016		3.0882		0.0466			0.6710			0.0986	
Nickel Compounds		0.2180	0.0002	0.0645		0.0167		0.3752			0.1017	0.2252	0.0036	0.5138	
Nitric acid (conc 80% or greater)														0.0038	
Nitrobenzene															
Non-Specific - Not uploadable to AIRS	0.0950	0.0100	0.1304			1.5000					0.0691			4.8415	
o-Xylenes															
p-Xylenes															4.0724
Parathion															
Pentachloronitrobenzene (Quintobenzene)															
Pentachlorophenol															
Pentane															
Phenol		5.5732		0.0019		2.1610		0.0574						4.6850	
Phosgene															
Phosphine														0.0186	
Phosphorus								0.0000				0.0079		0.0243	
Polycyclic aromatic hydrocarbons		0.0002	0.0000	0.0004										0.0028	
Polycyclic Organic Matter/4/		0.0053	0.0039	0.0019		0.0000		0.0217			0.2145	0.0011		14.8738	
Propane															
Propionaldehyde				0.1038			0.0020	1.3629				0.9965		0.0845	
Propylene dichloride (1,2-Dichloropropane)				0.0180											
Propylene oxide														0.0245	
Propylene[1-Propene]		0.0023				0.0013					0.0001			0.0000	

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Hydrogen sulfide				0.0134				
Hydroquinone								
Isophorone				0.0029				0.8210
Lead	0.0000		0.0000	0.0164		0.0003		0.0003
Lead Compounds		0.0001		0.0142		0.1865		
m-Xylenes			0.0679					
Manganese Compounds		0.0044	0.0000	0.0388		0.1836		0.0515
Mercury Compounds		0.0000	0.0000	0.0614				0.0002
Methane		0.5325						
Methanol						14.7211		1.7334
Methoxychlor				0.0286				
Methyl bromide (Bromomethane)								2.7495
Methyl chloride (Chloromethane)				0.0007				
Methyl chloroform (1,1,1-Trichloroethane)		0.0012		0.0007				
Methyl ethyl ketone (2-Butanone)				0.0117		13.2715		10.0020
Methyl hydrazine								
Methyl isobutyl ketone (Hexone)				0.0013		2.7280		6.6577
Methyl isocyanate								
Methyl methacrylate								
Methyl tert butyl ether				0.5526				
Methylene chloride (Dichloromethane)				0.0023		0.1109		4.5610
Methylene diphenyl diisocyanate (MDI)					0.0100	0.1100		
Misc - Unspecified VOCs								
N,N-Diethyl aniline (N,N-Dimethylaniline)								
N-Nitrosodimethylamine				0.0029				
N-Nitrosomorpholine				0.0029				
Naphthalene	0.0000	0.0012	0.0008	0.0083	13.1000	4.2768	0.0319	0.0090
Nickel Compounds		0.0029	0.0000	0.0127		0.0078		0.0103
Nitric acid (conc 80% or greater)								
Nitrobenzene				0.0029				
Non-Specific - Not uploadable to AIRS			0.0000	0.7840		0.0933		3.9464
o-Xylenes								0.0322
p-Xylenes								
Parathion								0.0040
Pentachloronitrobenzene (Quintobenzene)				0.0141				
Pentachlorophenol				0.0141				
Pentane	0.0599			0.0026				
Phenol				0.0029		17.4357		
Phosgene				0.0001				
Phosphine								
Phosphorus		0.0014		0.0831		0.0046		
Polycyclic aromatic hydrocarbons							0.0211	
Polycyclic Organic Matter/4/		0.0000	0.0000			1.0300		5.4190
Propane	0.0368							
Propionaldehyde	0.0000					0.0110		
Propylene dichloride (1,2-Dichloropropane)				0.0003				
Propylene oxide				0.0015				
Propylene[1-Propene]	0.0002		0.0025				0.6845	0.0005

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Pyrene		0.0000													
Quinoline															
Quinone		0.0169	0.0124											0.0356	
Selenium Compounds		0.0748	0.0000	0.5145		0.0008		4.6638			0.0830	1.6970	0.9702	0.4975	
Strontium (tsp)											0.1831				
Styrene				0.0030		15.1747		0.0897				1.1125		44.1005	
Sulfuric Acid				5.0565				50.1442				9.1228		16.8460	
Tetrachloroethylene (Perchloroethylene)				0.5586				0.1542						3.8623	
Toluene		6.4030	6.7256	13.6340	0.5552	14.0277	4.6150	0.8610	6.4241		24.9635	0.0000		54.8664	5.6085
Trichloroethylene		0.4128		0.3315										3.3604	
Triethylamine															
Trimethyl Benzene		0.0000				0.2297									
Vinyl acetate		0.1612		0.0009				0.0273						0.0246	
Vinyl chloride				0.4105		0.3690								0.2920	
Vinylidene chloride (1,1-Dichloroethylene)				0.0175											
Xylenes (isomers and mixture)		7.3266	17.1602	1.1544	0.2612	8.6981	0.5240	0.1327	5.0553					41.6350	1.1955

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Pyrene								
Quinoline				0.0286				
Quinone						0.0135		0.0213
Selenium Compounds			0.0000	0.0002				
Strontium (tsp)								
Styrene				0.0020		0.1325		3.7270
Sulfuric Acid								0.7150
Tetrachloroethylene (Perchloroethylene)								0.0001
Toluene	0.0001	0.0069	2.0875	0.1428		35.7647	0.0689	8.7911
Trichloroethylene				0.3192				0.0011
Triethylamine								
Trimethyl Benzene						5.8364		0.2610
Vinyl acetate				0.0033		0.0696		
Vinyl chloride				0.0058		0.0590		0.0065
Vinylidene chloride (1,1-Dichloroethylene)				0.0000				
Xylenes (isomers and mixture)	0.0000	0.0101	6.6594	0.7122		50.8135	0.0474	11.3402