

UTAH STATE IMPLEMENTATION PLAN

SECTION XIV

EMISSION INVENTORY DEVELOPMENT

Adopted by the Utah Air Quality Board
December 18, 1992

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The comprehensive emissions inventory for calendar year 1977 is shown as Tables XIV.1 through XIV.5. Initially it will include only the nonattainment areas; however, as soon as the data are compiled, the inventory for the remainder of the State will be included.

Beginning at the end of calendar year 1979, the inventory will be compiled each year.

TABLE XIV.1

1977 PARTICULATE INVENTORY (T/yr)

COUNTY	FOREST FIRES	VEHICLE EMISSIONS	SPACE HEATING	CONSTRUCTION/RES/IND/COMM/ROADS	UNPAVED ROADS	PAVED ROADS	AGRICULTURE	AGGREGATE STORAGE	ROAD CONSTRUCTION	ELECTRIC POWER GENERATION	PROCESS INDUSTRIES	OTHER TRANSPORTATION	TOTAL (T/yr)
DAVIS	22	392	216	930	1400	414	47	244	10	1	801	246	4723
SALT LAKE	103	1424	2294	4329	1363	3824	104	3121	22	853	18,998	683	37,118
UTAH	340	506	507	1670	10,053	3345	200	445	58	897	17,367	165	35,553
WEBER	68	327	596	548	961	778	61	272	22	0	725	300	4658

TABLE XIV.2

1977 CO INVENTORY (T/yr)

COUNTY	FOREST FIRES	VEHICLE EMISSIONS	SPACE HEATING	OTHER TRANSPORTATION	ELECTRIC POWER GENERATION	OFF-HIGHWAY	PROCESS INDUSTRY	TOTAL (T/yr)
DAVIS	172	54,810	363	1301	3	693	1275	58,622
SALT LAKE	848	212,100	943	5571	279	1362	16,275	237,378
UTAH	2800	67,500	402	836	103	521	11,992	84,154
WEBER	559	53,060	445	2532	-	319	699	57,614

TABLE XIV.3
1977 HYDROCARBON INVENTORY (T/yr)

COUNTY	FOREST FIRES	VEHICLE EMISSIONS	SPACE HEATING	DRY CLEANING EVAPORATION	PROCESS INDUSTRIES	OFF HIWAY VEHICLES	OTHER TRANSPORTATION	EVAPORATION OF FUEL (STORAGE MARKETING)	OTHER SOLVENT USE	TOTAL (T/yr)
DAVIS	30	5840	57	1090	6794	502	369	5003	496	20181
SALT LAKE	145	22600	337	4497	2032	985	1241	4447	2132	38,416
UTAH	480	7210	142	1451	4116	377	253	924	708	15,661
WEBER	96	5660	65	803	89	231	736	576	552	

TABLE XIV.4
1977 SO₂ INVENTORY (T/yr)

COUNTY	SPACE HEATING	VEHICLE EMISSIONS	OFF-HIGHWAY	OTHER TRANSPORTATION	ELECTRIC POWER	PROCESS INDUSTRY	TOTAL (T/yr)
DAVIS	454	166	30	111	57	6613	7431
SALT LAKE	3627	565	597	362	3627	260,141	268,919
UTAH	1533	142	228	125	1010	7529	10,567
WEBER	900	130	140	281	-	191	1642

TABLE XIV.5
1977 NO_x INVENTORY (T/yr)

COUNTY	FOREST FIRES	VEHICLE EMISSIONS	SPACE HEATING	OTHER TRANSPORTATION	PROCESS INDUSTRIES	OFF-HIWAY	ELECTRIC POWER GENERATION	TOTAL (t/YR)
DAVIS	5	2470	784	962	805	1966	633	7625
SALT LAKE	24	9559	2682	2193	21,965	3875	10,910	51,208
UTAH	80	2589	1426	841	11,870	1283	1094	19,383
WEBER	16	2392	434	1759	183	906	-	5690

TABLE XIV.6
1983 EMISSIONS INVENTORY
DAVIS COUNTY

SOURCE CATEGORY	PARTICULATES	SO _x	NO _x	HC	CO	TOTAL
AUTOMOBILES	624	238	3674	4676	51,516	60,728
OTHER VEHICLES	194	148	867	3313	10,819	15,341
PROCESS INDUSTRY	506	6944	2668	3247	5879	19,244
ELECTRICAL POWER GENERATION	2	2	249	37	6	296
SPACE HEATING	315	10	358	1117	3866	5666
FOREST FIRES	230		54	324	1891	2499
ROADS (PAVED/ UNPAVED)	72,953					72,953
MISCELLANEOUS				1616		1616
COUNTY TOTAL	74,824	7343	7870	14,330	73,977	178,344

TABLE XIV.7
1983 EMISSIONS INVENTORY
SALT LAKE COUNTY

SOURCE CATEGORY	PARTICULATES	SO _x	NO _x	HC	CO	TOTAL
AUTOMOBILES	2715	1041	15,401	21,442	281,807	322,406
OTHER VEHICLES	139	212	1268	1099	3713	6431
PROCESS INDUSTRY	7745	62,988	7635	3545	2533	84,446
ELECTRICAL POWER GENERATION	302	3096	3360	263	1525	8546
SPACE HEATING	347	85	1786	4808	16,092	24,118
FOREST FIRES	204		48	288	1682	2222
ROADS (PAVED/ UNPAVED)	180,494					180,494
MISCELLANEOUS				6766		6766
COUNTY TOTAL	192,946	67,422	29,498	38,211	307,352	635,429

**TABLE XIV.8
1983 EMISSIONS INVENTORY
UTAH COUNTY**

SOURCE CATEGORY	PARTICULATES	SO _x	NO _x	HC	CO	TOTAL
AUTOMOBILES	832	319	4748	6526	69,435	81,860
OTHER VEHICLES	76	234	1281	733	2532	4856
PROCESS INDUSTRY	4149	5059	14,027	2033	17,759	43,027
ELECTRICAL POWER GENERATION	24	55	298	80	31	488
SPACE HEATING	501	66	473	1864	5796	8700
FOREST FIRES	683		161	964	5622	7430
ROADS (PAVED/ UNPAVED)	71,455					71,455
MISCELLANEOUS				3210		3210
COUNTY TOTAL	77,710	5733	20,988	15,410	101,175	221,016

**TABLE XIV.9
1983 EMISSIONS INVENTORY
WEBER COUNTY**

SOURCE CATEGORY	PARTICULATES	SO _x	NO _x	HC	CO	TOTAL
AUTOMOBILES	549	211	3049	4433	58,429	66,671
OTHER VEHICLES	59	156	893	342	14,284	15,734
PROCESS INDUSTRY	877	133	423	194	1385	3012
ELECTRICAL POWER GENERATION						
SPACE HEATING	321	38	404	1174	3701	5638
FOREST FIRES	42		10	59	344	455
ROADS (PAVED/ UNPAVED)	49,950					49,950
MISCELLANEOUS				1770		1770
COUNTY TOTAL	51,798	538	4779	7972	78,143	143,230