

UTAH STATE DEPARTMENT OF HEALTH
 Division of Environmental Health
 Bureau of Air Quality
 PM10 S.I.P Control Strategy Worksheet

Site: Air monitoring Center

Date: 09-Jan-91

Period: EXCEEDANCE DAYS IN WINTERS 88/89,89/90

Projection: 2000

Source Category	Design Day % Contribution	Impact	Additional Control	Additional Growth	Attainment Impact
(1) Major Point sources	41.17	73.0	19.4%	0.00%	58.8

Copper smelter	0.00	0.0	41.2%	0.00%	0.0
Oil refinery cat crackers	5.35	9.5	-15.8%	0.00%	11.0
Other point sources	12.42	22.0	36.4%	0.00%	14.0
Secondary Sulfate	12.97	23.0	63.1%	0.00%	8.5
Secondary Nitrate	10.42	18.5	-37.1%	0.00%	25.4
(2) Vehicle Sub-Total	33.47	59.4			54.0

Composite Mobile sources	8.18	14.5			
Leaded Gas Fueled	2.52	4.5	6.0%	42.58%	6.0
Diesel Fueled	4.10	7.3	23.8%	42.58%	7.9
Unleaded Gas Fueled	1.55	2.8	6.0%	42.58%	3.7
Re-entrained road dust	7.54	13.4	0.6%	0.00%	13.3
Road Salting	0.00	0.0	0.0%	0.00%	0.0
Brakewear	1.82	3.2	0.0%	42.58%	4.6
Secondary Sulfate	0.34	0.6	59.0%	42.58%	0.3
Secondary Nitrate	15.59	27.7	54.1%	42.58%	18.1
(3) Space Heating Sub-Total	21.86	38.8			26.5

Wood Burning	15.02	26.6	60.0%	19.56%	12.7
Coal Burning	0.55	1.0	60.0%	19.56%	0.5
Gas & Other Heating	0.98	1.7	0.0%	19.56%	2.1
Secondary Sulfate	0.27	0.5	0.0%	19.56%	0.6
Secondary Nitrate	5.04	8.9	0.0%	19.56%	10.7
(4) Other sources	3.51	6.2			6.2

Trains	0.79	1.4	0.0%	0.0%	1.4
Planes	0.73	1.3	0.0%	0.0%	1.3
Secondary Sulfate	0.04	0.1	0.0%	0.0%	0.1
Secondary Nitrate	1.95	3.5	0.0%	0.0%	3.5

Total	100.00	177.4			145.5

Design Value 177.4 (Micrograms/Cubic Meter) on 31-Jan-89
 These figures were projected out to the year: 2000

Note:

* % growth of VMT's each year = 3.0%

% population growth per year = 1.5%

0.70269597 = Gadsby's capacity factor during the winter season
 0.65 = KMC's Utah Power Plant capacity during the winter season
 73.0% = expected % of diesel fuel burned that will meet new SO₂ standards
 15,000 lb/hr = the worst case hourly emission rate from the tall stack

TABLE 9.A.17