

Table heading: Modeling Domain
Temporally and Spatially Adjusted
Summary by Non-Attainment Area – All Categories
Tons/Average Episode Day

This table shows overall emissions for the entire modeling domain, by inventory sector (area/non-point sources, non-road sources, point sources, and on-road sources) for each pollutant of interest. Units are in tons per average episode day, and the information is organized into groups approximating each of the PM2.5 nonattainment areas within the modeling domain. For instance, the box labeled Logan, UT / ID nonattainment area includes totals representing all sources within Cache County Utah and Franklin County Idaho. In actuality, the nonattainment area includes only portions of each of these counties, but for summary purposes emissions from the entire counties were used to compile these totals. Emission totals for the box labeled Surrounding Areas sums the county totals for each county belonging, at least in part, to the modeling domain but not extending into any of the three PM2.5 nonattainment Areas. Emissions from any of the counties bisected by the modeling domain were adjusted within the SMOKE pre-processor to account for only that portion belonging to the domain. Typically, the adjustment is made based on either geographic area or population. Emissions were also temporally adjusted within the SMOKE pre-processor. Subtotals for each of the regions within the domain are compared, below the last box, in terms of both emission rates and percentages.

Modeling Domain
Temporally and Spatially Adjusted
Episode 3: 12/8/2009 - 1/22/2010 (44 days)
Summary by Non-Attainment Area - All Categories

Tons/Average Episode Day

NA-Area	Category	PM2_5	NOX	VOC	NH3	SO2	CO
Logan, UT-ID	Area/NonPoint	0.589	1.897	8.900	9.158	0.581	5.720
	Point	0.001	0.013	0.387	0.000	0.000	0.010
	NonRoad	0.080	0.799	1.200	0.000	0.077	5.470
	OnRoad	0.650	5.962	4.972	0.113	0.033	55.862
Total		1.320	8.671	15.458	9.271	0.692	67.062

Provo, UT	Area/NonPoint	1.714	5.406	15.767	6.697	0.353	17.900
	Point	0.252	0.788	0.193	0.288	0.021	0.407
	NonRoad	0.033	0.686	0.287	0.000	0.122	1.956
	OnRoad	0.708	22.847	12.191	0.381	0.134	163.281
Total		2.708	29.727	28.438	7.365	0.630	183.543

Salt Lake City, UT	Area/NonPoint	5.492	27.378	56.179	18.444	1.834	49.499
	Point	3.728	21.937	11.635	0.624	9.568	11.808
	NonRoad	0.456	6.311	6.557	0.000	0.390	36.722
	OnRoad	2.763	89.580	51.151	1.620	0.556	664.100
Total		12.439	145.207	125.521	20.688	12.348	762.129

Surrounding Areas	Area/NonPoint	24.645	45.189	91.150	121.498	25.912	124.727
	Point	7.816	185.509	2.663	2.515	117.910	55.678
	NonRoad	1.561	13.645	33.288	0.004	0.353	162.154
	OnRoad	6.924	57.076	21.412	0.767	0.408	264.864
Total		40.946	301.418	148.513	124.784	144.583	607.423

Logan, UT-ID	1.320	8.671	15.458	9.271	0.692	67.062
Provo, UT	2.708	29.727	28.438	7.365	0.630	183.543
Salt Lake City, UT	12.439	145.207	125.521	20.688	12.348	762.129
Surrounding Areas	40.946	301.418	148.513	124.784	144.583	607.423
	57.412	485.023	317.930	162.109	158.253	1,620.158

Logan, UT-ID	2%	2%	5%	6%	0%	4%
Provo, UT	5%	6%	9%	5%	0%	11%
Salt Lake City, UT	22%	30%	39%	13%	8%	47%
Surrounding Areas	<u>71%</u>	<u>62%</u>	<u>47%</u>	<u>77%</u>	<u>91%</u>	<u>37%</u>
	100%	100%	100%	100%	100%	100%