[redacted]

From: Joseph Scire <jss@src.com>
To: "Dan Olson" <DOLSON@missc.state.wy.us>
Date: 07/29/99 12:12pm
Subject: Emissions Data

Dan,

Attached is a spreadsheet containing the emissions in both g/s and tpy for two breakdowns of the source groups -- the original source groups and the new source groups requested by SWWYTAF. Note that there are 4 tables in the spreadsheet.

In this summary, the emissions are derived from the model AFTER the source variability has been accounted for, so it reflects what the true emissions are for 1995. For example, sources that have a temperature variability wil have that effect evaluated in the annual average emissions is these summary tables.

Joe

At 09:17 AM 7/29/99 -0600, you wrote:
>Date: Thu, 29 Jul 1999 09:11:44 -0600
>From: "Darla Potter" <DPOTTE@missc.state.wy.us>
>To: <DOLSON.CHEYENNE.DEQ@missc.state.wy.us>
>Subject: File is Attached -Forwarded -Reply
>Mime-Version: 1.0
>Content-Type: text/plain; charset=US-ASCII
>Content-Transfer-Encoding: quoted-printable
>Content-Disposition: inline
>
>The electronic version of the boundary condition and relative humidity =
>memo that was sent to you by e-mail on 7/16=20
>came through OK. Please pass this part of the message on to Joe.
>
>It was my understanding from speaking with you and Bernie (after the 7/16 =
>conference call) that Joe would be sending the following prior to our =
>conference call on 7/30.=20
>1) A write-up on the receptors to confirm what receptors are being used =
>for the model runs.
>2) An emissions summary for all pollutants in TPY and g/s to summarize =
>the Air Sciences and Earth Tech emissions inventory reports.
>3) Additional explanation of the boundary condition scenario.
>
>Thanks
>Darla
>
>

Group-Separated Total Emissions Used in the CALPUFF Modeling for SWWYTAF Areas

Note: 1. Values for variable emissions other than Bio-VOC and ammonia are the averages over their variable periods

2. For Bio-VOC and ammonia, the values are from the mass balance file of CALPUFF.

Group	Number of Sources	SO2 g/s	NO g/s	NO2 g/s	COARSE g/s	PM2.5 g/s	TOL g/s	XYL g/s	B-Pinene g/s	A-Pinene g/s	NH3 g/s
Utah	139	501.708	1340.984	228.456	0	1732.482	220.051	868.275			
Idaho	129	596.304	633.331	107.898	266.44	212.128	31.087	19.929			
Wyoming City	9	0	77.521	13.209	0	1.38	15.375	6.59			
wyoming Mobile	381	37.671	917.585	156.317	424.123	320.087	15.639	6.885			
Power Plant	18	2054.244	1319.21	224.758	52.87	276.683	0.345	0.092			
PAW	76	0	63.954	10.896	0	2.057	107.782	106.916			
Fire	32	0	112	19.08	103.5	51.76	1.179	0.3683			
Trona	62	155.763	130.858	22.29	0	109.069	0.796	0.556			
Gas	248	625.899	250.542	42.684	0.331	9.584	4.887	3.036			
Miscell	17	101.244	24.449	4.167	3.193	25.767	0.013	0.039			
Bio-VOC	597								8.099E+03	4.686E+03	
Ammonia	69										7.511E+03
Total (g/s)	**1777**	**4072.83**	**4870.43**	**829.76**	**850.46**	**2741.00**	**397.15**	**1012.69**	**8099.00**	**4686.00**	**7511.00**
Total (ton/yr)	**1777**	**141580.37**	**169306.68**	**28844.06**	**29563.70**	**95282.91**	**13805.92**	**35203.14**	**281538.53**	**162895.36**	**261098.39**

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Group-Separated Total Emissions Used in the CALPUFF Modeling for SWWYTAF Areas

Note: 1. Values for variable emissions other than Bio-VOC and ammonia are the averages over their variable periods

2. For Bio-VOC and ammonia, the values are from the mass balance file of CALPUFF.

Group	Number of Sources	SO2 ton/yr	NO ton/yr	NO2 ton/yr	COARSE ton/yr	PM2.5 ton/yr	TOL ton/yr	XYL ton/yr	B-Pinene ton/yr	A-Pinene ton/yr	NH3 ton/yr
Utah	139	17440.44	46615.47	7941.62	0.00	60224.77	7649.44	30183.09			
Idaho	129	20728.80	22015.94	3750.76	9262.02	7374.02	1080.65	692.77			
Wyoming City	9	0.00	2694.80	459.17	0.00	47.97	534.47	229.08			
wyoming Mobile	381	1309.52	31897.21	5433.91	14743.42	11126.91	543.65	239.34			
Power Plant	18	71409.91	45858.56	7813.07	1837.87	9618.09	11.99	3.20			
PAW	76	0.00	2223.18	378.77	0.00	71.51	3746.73	3716.63			
Fire	32	0.00	3893.36	663.26	3597.88	1799.29	40.98	12.80			
Trona	62	5414.65	4548.90	774.85	0.00	3791.47	27.67	19.33			
Gas	248	21757.59	8709.37	1483.79	11.51	333.16	169.88	105.54			
Miscell	17	3519.46	849.90	144.85	111.00	895.72	0.45	1.36			
Bio-VOC	597								281538.529	162895.363	
Ammonia	69										261098.394
Total (ton/yr)	**1777**	**141580.37**	**169306.68**	**28844.06**	**29563.70**	**95282.91**	**13805.92**	**35203.14**	**281538.53**	**162895.36**	**261098.39**

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Total Emissions Used in the CALPUFF Modeling for SWWYTAF Areas (Grouped Based on Source Types)

Note: 1. Values for variable emissions other than Bio-VOC and ammonia are the averages over their variable periods

2. For Bio-VOC and ammonia, the values are from the mass balance file of CALPUFF.

Group	Soure type	Number of Sources	SO2 g/s	NO g/s	NO2 g/s	COARSE g/s	PM2.5 g/s	TOL g/s	XYL g/s	B-Pinene g/s	A-Pinene g/s	NH3 g/s
County Point	Constant point	292	1134.572	479.59	81.706	0	157.437	0.787	0.315			
County Area	Constant ara	171	286.755	1266.427	215.759	3.193	1843.17	227.194	878.852			
Cities	Monthly variable area	11	25.274	170.45	29.043	147.809	7.782	38.286	16.411			
Highway	24-hr variable area (monthly 24-hr variable for Anth-VOC)	221	18.923	1016.801	173.213	468.058	382.947	20.521	8.208			
Rail Road	Constant area	150	41.024	329.812	56.191	1.393	12.543	1.353	1.602			
PAW	Constant area	76	0	63.954	10.896	0	2.057	107.782	106.916			
Fire	Hourly variable area	32	0	112	19.08	103.5	51.76	1.179	0.3683			
CEM	Hourly variable point	17	2039	1344.72	229.1	52.87	236.775	0.052	0.014			
CEM-Excess	Hourly variable point	22	527.285	86.68	14.767	0.331	20.243	0	0			
Unpaved Road	Monthly 24-hr variable area	119	0	0	0	73.303	26.283	0	0			
Bio-VOC	Monthly 24-hr variable area	597								8.099E+03	4.686E+03	
Ammonia	12-temperature variable area	69										7.511E+03
Total (g/s)		**1777**	**4072.83**	**4870.43**	**829.76**	**850.46**	**2741.00**	**397.15**	**1012.69**	**8099.00**	**4686.00**	**7511.00**
Total (ton/yr)		**1777**	**141580.37**	**169306.68**	**28844.06**	**29563.70**	**95282.91**	**13805.92**	**35203.14**	**281538.53**	**162895.36**	**261098.39**

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Total Emissions Used in the CALPUFF Modeling for SWWYTAF Areas (Grouped Based on Source Types)

Note: 1. Values for variable emissions other than Bio-VOC and ammonia are the averages over their variable periods

2. For Bio-VOC and ammonia, the values are from the mass balance file of CALPUFF.

Group	Soure type	Number of Sources	SO2 ton/yr	NO ton/yr	NO2 ton/yr	COARSE ton/yr	PM2.5 ton/yr	TOL ton/yr	XYL ton/yr	B-Pinene ton/yr	A-Pinene ton/yr	NH3 ton/yr
County Point	Constant point	292	39440.14	16671.57	2840.27	0.00	5472.85	27.36	10.95			
County Area	Constant ara	171	9968.22	44023.71	7500.24	111.00	64072.52	7897.75	30550.77			
Cities	Monthly variable area	11	878.58	5925.21	1009.60	5138.16	270.52	1330.90	570.48			
Highway	24-hr variable area (monthly 24-hr variable for Anth-VOC)	221	657.80	35346.17	6021.25	16270.70	13312.06	713.35	285.33			
Rail Road	Constant area	150	1426.08	11464.97	1953.32	48.42	436.02	47.03	55.69			
PAW	Constant area	76	0.00	2223.18	378.77	0.00	71.51	3746.73	3716.63			
Fire	Hourly variable area	32	0.00	3893.36	663.26	3597.88	1799.29	40.98	12.80			
CEM	Hourly variable point	17	70879.99	46745.34	7964.01	1837.87	8230.80	1.81	0.49			
CEM-Excess	Hourly variable point	22	18329.55	3013.18	513.33	11.51	703.69	0.00	0.00			
Unpaved Road	Monthly 24-hr variable area	119	0.00	0.00	0.00	2548.17	913.65	0.00	0.00			
Bio-VOC	Monthly 24-hr variable area	597								281538.53	162895.36	
Ammonia	12-temperature variable area	69	0.00									261098.39
Total (ton/yr)		**1777**	**141580.37**	**169306.68**	**28844.06**	**29563.70**	**95282.91**	**13805.92**	**35203.14**	**281538.53**	**162895.36**	**261098.39**

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