

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer
 Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 1: Running Exhaust Emissions (grams/mile;
 grams/minute-hour)

Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	5.907	10.855	0.000	0.000	1.472
1	1.784	2.117	1.434	9.712	2.318	5.138	2.529
2	1.784	2.117	1.434	9.712	2.318	5.138	2.529
3	1.707	2.029	1.389	9.712	2.318	5.138	2.458
4	1.565	1.866	1.307	9.712	2.318	5.138	2.326
5	1.437	1.720	1.233	9.712	2.318	5.138	2.208

Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	35.523	36.624	0.000	0.000	6.699
1	17.109	24.518	14.086	36.654	22.090	40.231	21.787
2	17.109	24.518	14.086	36.654	22.090	40.231	21.787
3	16.755	23.959	13.881	36.654	22.090	40.231	21.392
4	16.085	22.908	13.495	36.654	22.090	40.231	20.646
5	15.465	21.936	13.137	36.654	22.090	40.231	19.955

Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	13.496	91.396	0.000	0.000	8.369
1	0.804	1.398	2.082	29.429	15.171	0.735	3.381
2	0.804	1.398	2.082	29.429	15.171	0.735	3.381
3	0.791	1.375	2.068	29.429	15.171	0.735	3.365
4	0.766	1.331	2.041	29.429	15.171	0.735	3.334
5	0.743	1.290	2.016	29.429	15.171	0.735	3.305

Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1683.326	5871.566	0.000	0.000	628.311
1	1390.913	1591.491	2043.907	3289.385	2548.753	232.525	1681.837
2	1390.913	1591.491	2043.907	3289.385	2548.753	232.525	1681.837
3	1353.108	1548.329	2004.731	3289.385	2548.753	232.525	1644.900
4	1282.220	1467.398	1931.274	3289.385	2548.753	232.525	1575.639
5	1217.144	1393.101	1863.840	3289.385	2548.753	232.525	1512.057

Pollutant Name: Sul fur Di oxide Temperature: 90F Relative Humidity:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.056	0.000	0.000	0.006
1	0.014	0.016	0.020	0.032	0.025	0.003	0.016
2	0.014	0.016	0.020	0.032	0.025	0.003	0.016
3	0.013	0.015	0.019	0.032	0.025	0.003	0.016
4	0.013	0.014	0.019	0.032	0.025	0.003	0.015
5	0.012	0.014	0.018	0.032	0.025	0.003	0.015

Pollutant Name: PM10 Temperature: 90F Relative Humidity:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.158	1.539	0.000	0.000	0.133
1	0.082	0.122	0.114	2.251	0.455	0.061	0.267
2	0.082	0.122	0.114	2.251	0.455	0.061	0.267
3	0.079	0.117	0.110	2.251	0.455	0.061	0.263
4	0.072	0.108	0.103	2.251	0.455	0.061	0.256
5	0.066	0.100	0.097	2.251	0.455	0.061	0.249

Pollutant Name: PM10 - Tire Wear Temperature: 90F Relative Humidity:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.010	0.029	0.010	0.004	0.010
2	0.008	0.008	0.010	0.029	0.010	0.004	0.010
3	0.008	0.008	0.010	0.029	0.010	0.004	0.010
4	0.008	0.008	0.010	0.029	0.010	0.004	0.010
5	0.008	0.008	0.010	0.029	0.010	0.004	0.010

Pollutant Name: PM10 - Break Wear Temperature: 90F Relative Humidity:
50%

Speed

Vehicle Queuing MPH	Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer						
	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.024	0.013	0.006	0.013
2	0.013	0.013	0.013	0.024	0.013	0.006	0.013
3	0.013	0.013	0.013	0.024	0.013	0.006	0.013
4	0.013	0.013	0.013	0.024	0.013	0.006	0.013
5	0.013	0.013	0.013	0.024	0.013	0.006	0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.196	5.147	3.672	3.161	3.439	28.394	5.725
2	6.196	5.147	3.672	3.161	3.439	28.394	5.725
3	6.369	5.292	3.750	3.161	3.439	28.394	5.871
4	6.720	5.587	3.910	3.161	3.439	28.394	6.168
5	7.079	5.889	4.073	3.161	3.439	28.394	6.471

50% Pollutant Name: Diesel - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.128	29.050	19.516	3.417	3.908	0.000	12.829
2	28.128	29.050	19.516	3.417	3.908	0.000	12.829
3	28.128	29.050	19.516	3.417	3.908	0.000	12.829
4	28.128	29.050	19.516	3.417	3.908	0.000	12.829
5	28.128	29.050	19.516	3.417	3.908	0.000	12.829

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Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Summer

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.162	0.175	0.212	1.633	0.216	1.214	0.299
10	0.251	0.273	0.325	1.863	0.420	1.254	0.405
20	0.418	0.455	0.536	2.321	0.796	1.357	0.606
30	0.569	0.619	0.729	2.777	1.129	1.491	0.792
40	0.704	0.767	0.904	3.229	1.417	1.656	0.962
50	0.824	0.897	1.060	3.679	1.662	1.850	1.118
60	0.921	1.003	1.189	3.985	1.864	1.957	1.239
120	1.215	1.366	1.561	4.702	2.245	2.277	1.606
180	1.315	1.473	1.668	5.046	2.382	2.460	1.729
240	1.393	1.559	1.768	5.384	2.515	2.645	1.834
300	1.468	1.644	1.866	5.717	2.643	2.829	1.938
360	1.542	1.726	1.962	6.045	2.767	3.012	2.039
420	1.614	1.806	2.056	6.368	2.887	3.194	2.138
480	1.684	1.884	2.147	6.685	3.002	3.375	2.234
540	1.752	1.959	2.237	6.998	3.113	3.555	2.329
600	1.818	2.033	2.324	7.305	3.220	3.733	2.421
660	1.883	2.104	2.410	7.607	3.322	3.911	2.510
720	1.945	2.173	2.493	7.904	3.420	4.088	2.598

Poll utant Name: Carbon Monoxi de Temperature: 90F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	1.326	1.606	2.158	21.255	2.419	5.882	3.105
10	1.981	2.447	3.275	22.735	4.738	5.525	3.959
20	3.224	4.037	5.391	25.725	9.083	4.925	5.590
30	4.377	5.506	7.352	28.757	13.034	4.479	7.121
40	5.438	6.854	9.159	31.830	16.593	4.187	8.552
50	6.409	8.082	10.812	34.946	19.758	4.048	9.882
60	7.290	9.188	12.310	38.104	22.531	4.062	11.112
120	12.086	16.556	18.338	58.926	30.510	7.804	18.317
180	15.186	19.765	20.401	67.677	31.403	10.243	21.690
240	16.038	20.773	21.617	75.687	32.324	12.455	23.210
300	16.837	21.730	22.751	82.958	33.275	14.422	24.620
360	17.583	22.636	23.801	89.489	34.255	16.143	25.920
420	18.276	23.490	24.769	95.280	35.265	17.620	27.109
480	18.916	24.293	25.655	100.331	36.304	18.851	28.188
540	19.503	25.044	26.457	104.642	37.373	19.836	29.156
600	20.036	25.744	27.177	108.214	38.470	20.577	30.014
660	20.517	26.392	27.814	111.045	39.598	21.072	30.761
720	20.944	26.990	28.368	113.137	40.754	21.322	31.398

Poll utant Name: Oxi des of Ni trogen Temperature: 90F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.343	0.435	0.869	1.021	1.062	0.212	0.517
10	0.417	0.532	1.040	1.447	1.600	0.237	0.641
20	0.546	0.702	1.342	2.196	2.545	0.282	0.860
30	0.653	0.842	1.591	2.807	3.315	0.320	1.041

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

40	0.737	0.952	1.787	3.282	3.911	0.351	1.182
50	0.798	1.032	1.930	3.620	4.331	0.376	1.284
60	0.836	1.082	2.019	3.822	4.576	0.394	1.347
120	0.868	1.126	2.101	3.843	4.605	0.395	1.391
180	0.896	1.158	2.112	3.821	4.589	0.387	1.414
240	0.889	1.149	2.098	3.790	4.563	0.376	1.403
300	0.880	1.137	2.076	3.750	4.528	0.362	1.388
360	0.867	1.122	2.048	3.699	4.484	0.346	1.369
420	0.852	1.102	2.013	3.640	4.432	0.327	1.345
480	0.833	1.079	1.971	3.570	4.370	0.306	1.317
540	0.812	1.052	1.922	3.491	4.299	0.282	1.285
600	0.788	1.022	1.867	3.403	4.220	0.255	1.248
660	0.761	0.988	1.804	3.304	4.132	0.225	1.207
720	0.731	0.950	1.735	3.197	4.034	0.193	1.162

Pollutant Name: Carbon Di oxide

Temperature: 90F Relative Humidity:

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.894	12.231	17.451	27.618	4.442	26.932	13.998
10	14.019	15.851	21.926	32.551	8.857	29.590	17.676
20	20.484	23.324	31.297	42.246	17.614	34.766	25.255
30	27.235	31.108	41.229	51.712	26.272	39.755	33.132
40	34.273	39.202	51.723	60.948	34.832	44.556	41.307
50	41.598	47.607	62.779	69.955	43.294	49.171	49.779
60	49.209	56.323	74.396	78.733	51.658	53.598	58.549
120	94.700	107.852	147.665	118.023	87.860	74.151	110.321
180	108.684	123.870	169.217	128.264	103.799	75.642	125.941
240	122.202	139.338	190.158	137.903	118.798	77.049	141.032
300	135.254	154.256	210.487	146.941	132.855	78.370	155.593
360	147.840	168.623	230.204	155.377	145.972	79.607	169.626
420	159.960	182.440	249.308	163.212	158.148	80.759	183.129
480	171.614	195.707	267.802	170.445	169.384	81.825	196.103
540	182.801	208.424	285.683	177.077	179.678	82.807	208.549
600	193.523	220.591	302.952	183.106	189.032	83.704	220.465
660	203.779	232.207	319.609	188.535	197.445	84.516	231.852
720	213.568	243.273	335.655	193.361	204.917	85.243	242.710

Pollutant Name: Sul fur Di oxide

Temperature: 90F Relative Humidity:

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.001	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.000	0.000
20	0.000	0.000	0.000	0.001	0.000	0.000	0.000
30	0.000	0.000	0.001	0.001	0.000	0.000	0.000
40	0.000	0.001	0.001	0.001	0.001	0.001	0.001
50	0.001	0.001	0.001	0.001	0.001	0.001	0.001
60	0.001	0.001	0.001	0.001	0.001	0.001	0.001
120	0.001	0.001	0.002	0.002	0.001	0.001	0.001
180	0.001	0.002	0.002	0.002	0.002	0.001	0.002
240	0.001	0.002	0.002	0.003	0.002	0.001	0.002
300	0.002	0.002	0.002	0.003	0.002	0.001	0.002
360	0.002	0.002	0.003	0.003	0.002	0.001	0.002
420	0.002	0.002	0.003	0.003	0.002	0.001	0.002

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

480	0.002	0.002	0.003	0.003	0.002	0.001	0.002
540	0.002	0.002	0.003	0.003	0.002	0.001	0.003
600	0.002	0.003	0.003	0.004	0.002	0.001	0.003
660	0.002	0.003	0.004	0.004	0.003	0.001	0.003
720	0.002	0.003	0.004	0.004	0.003	0.001	0.003

ALL Pollutant Name: PM10 Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.002	0.001	0.002	0.001	0.015	0.002
10	0.002	0.003	0.002	0.002	0.001	0.014	0.002
20	0.004	0.005	0.003	0.003	0.003	0.011	0.004
30	0.005	0.007	0.004	0.003	0.004	0.008	0.006
40	0.006	0.009	0.005	0.004	0.005	0.006	0.007
50	0.008	0.011	0.006	0.004	0.006	0.005	0.008
60	0.009	0.013	0.007	0.005	0.007	0.004	0.010
120	0.012	0.018	0.011	0.007	0.009	0.010	0.014
180	0.013	0.019	0.011	0.008	0.010	0.016	0.015
240	0.014	0.020	0.012	0.009	0.010	0.021	0.016
300	0.015	0.021	0.013	0.009	0.010	0.026	0.017
360	0.015	0.022	0.013	0.010	0.011	0.029	0.017
420	0.016	0.023	0.014	0.010	0.011	0.033	0.018
480	0.016	0.023	0.014	0.011	0.011	0.035	0.019
540	0.017	0.024	0.014	0.011	0.011	0.037	0.019
600	0.017	0.025	0.015	0.012	0.012	0.039	0.020
660	0.018	0.025	0.015	0.012	0.012	0.040	0.020
720	0.018	0.026	0.015	0.012	0.013	0.040	0.021

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Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.172	0.186	0.063	0.065	0.044	0.253	0.153

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer							
10	0.318	0.344	0.117	0.120	0.082	0.472	0.283
20	0.547	0.592	0.202	0.205	0.142	0.820	0.486
30	0.708	0.767	0.262	0.264	0.185	1.075	0.630
40	0.770	0.834	0.286	0.285	0.201	1.177	0.685

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

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Average North Coast Basin Average Basin

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases		Temperature: ALL					Relative Humidity:	
ALL		LDA	LDT	MDT	HDT	UBUS	MCY	ALL
Temp degF								
90		0.462	0.507	0.178	0.030	0.004	0.607	0.446

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Average North Coast Basin Average Basin

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.038	0.040	0.014	0.001	0.001	0.048	0.035

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 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.237	0.264	0.097	0.017	0.003	0.334	0.232

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North Coast Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
 ALL

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Summer

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.020	0.021	0.008	0.001	0.001	0.028	0.019

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Average North Coast Basin Average Basin

Table 7: Estimated Travel Fractions

Poll utant Name: ALL Temperature: ALL Rel ati ve Humi di ty:

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.361	0.439	0.111	0.075	0.002	0.012	1.000
%TRIP	0.338	0.406	0.168	0.073	0.000	0.015	1.000
%VEH	0.370	0.448	0.093	0.039	0.000	0.050	1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 8: Evaporati ve Runni ng Loss Emi ssi ons

(grams/mi nute)

Poll utant Name: Reactive Org Gases Temperature: 90F Rel ati ve Humi di ty:

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.060	0.937	0.416	0.246	0.167	0.142	0.500
2	0.066	0.492	0.220	0.137	0.087	0.178	0.277
3	0.072	0.347	0.156	0.101	0.061	0.196	0.206
4	0.076	0.276	0.125	0.083	0.050	0.206	0.171
5	0.080	0.234	0.107	0.072	0.043	0.214	0.151
10	0.087	0.155	0.073	0.051	0.031	0.234	0.115
15	0.092	0.135	0.065	0.045	0.028	0.244	0.106
20	0.095	0.128	0.062	0.041	0.029	0.251	0.104
25	0.098	0.128	0.062	0.040	0.030	0.258	0.105
30	0.098	0.127	0.062	0.040	0.029	0.257	0.104
35	0.098	0.127	0.062	0.039	0.029	0.256	0.104
40	0.097	0.127	0.062	0.039	0.029	0.256	0.104
45	0.097	0.126	0.062	0.039	0.029	0.255	0.103
50	0.096	0.126	0.061	0.039	0.029	0.251	0.103
55	0.093	0.125	0.061	0.039	0.029	0.245	0.101
60	0.091	0.124	0.061	0.039	0.029	0.240	0.100

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year : 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 1: Running Exhaust Emissions (grams/mile;
 grams/minute-hour)

Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	6.111	10.342	0.000	0.000	1.443
1	1.603	1.978	1.324	9.063	2.253	5.066	2.335
2	1.603	1.978	1.324	9.063	2.253	5.066	2.335
3	1.534	1.896	1.282	9.063	2.253	5.066	2.269
4	1.405	1.744	1.204	9.063	2.253	5.066	2.147
5	1.290	1.607	1.134	9.063	2.253	5.066	2.038

Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:
 50%

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	36.683	36.053	0.000	0.000	6.729
1	15.528	23.042	12.894	33.886	21.540	37.511	20.178
2	15.528	23.042	12.894	33.886	21.540	37.511	20.178
3	15.214	22.523	12.705	33.886	21.540	37.511	19.815
4	14.620	21.545	12.349	33.886	21.540	37.511	19.132
5	14.068	20.640	12.018	33.886	21.540	37.511	18.499

50% Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	12.812	92.776	0.000	0.000	8.308
1	0.737	1.319	1.939	27.593	14.736	0.750	3.144
2	0.737	1.319	1.939	27.593	14.736	0.750	3.144
3	0.725	1.298	1.925	27.593	14.736	0.750	3.129
4	0.703	1.257	1.900	27.593	14.736	0.750	3.100
5	0.682	1.218	1.876	27.593	14.736	0.750	3.073

50% Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1691.971	5864.600	0.000	0.000	622.567
1	1389.377	1599.188	2063.530	3281.511	2542.116	238.252	1683.920
2	1389.377	1599.188	2063.530	3281.511	2542.116	238.252	1683.920
3	1351.653	1555.839	2024.354	3281.511	2542.116	238.252	1646.908
4	1280.917	1474.556	1950.896	3281.511	2542.116	238.252	1577.507
5	1215.981	1399.938	1883.460	3281.511	2542.116	238.252	1513.797

50% Pollutant Name: Sulfur Dioxide Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.056	0.000	0.000	0.006
1	0.014	0.016	0.020	0.032	0.025	0.003	0.016
2	0.014	0.016	0.020	0.032	0.025	0.003	0.016
3	0.013	0.015	0.020	0.032	0.025	0.003	0.016
4	0.013	0.015	0.019	0.032	0.025	0.003	0.015
5	0.012	0.014	0.018	0.032	0.025	0.003	0.015

50% Pollutant Name: PM10 Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

0	0.000	0.000	0.147	1.416	0.000	0.000	0.121
1	0.082	0.124	0.116	2.022	0.445	0.056	0.249
2	0.082	0.124	0.116	2.022	0.445	0.056	0.249
3	0.079	0.119	0.112	2.022	0.445	0.056	0.245
4	0.072	0.109	0.105	2.022	0.445	0.056	0.237
5	0.066	0.101	0.098	2.022	0.445	0.056	0.231

50% Pollutant Name: PM10 - Tire Wear Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.010	0.029	0.010	0.004	0.010
2	0.008	0.008	0.010	0.029	0.010	0.004	0.010
3	0.008	0.008	0.010	0.029	0.010	0.004	0.010
4	0.008	0.008	0.010	0.029	0.010	0.004	0.010
5	0.008	0.008	0.010	0.029	0.010	0.004	0.010

50% Pollutant Name: PM10 - Break Wear Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.024	0.013	0.006	0.013
2	0.013	0.013	0.013	0.024	0.013	0.006	0.013
3	0.013	0.013	0.013	0.024	0.013	0.006	0.013
4	0.013	0.013	0.013	0.024	0.013	0.006	0.013
5	0.013	0.013	0.013	0.024	0.013	0.006	0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.218	5.143	3.674	3.186	3.441	28.275	5.734
2	6.218	5.143	3.674	3.186	3.441	28.275	5.734
3	6.391	5.287	3.751	3.186	3.441	28.275	5.880
4	6.743	5.582	3.909	3.186	3.441	28.275	6.177
5	7.103	5.883	4.070	3.186	3.441	28.275	6.480

50% Pollutant Name: Diesel - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.193	29.053	19.528	3.434	3.927	0.000	12.613
2	28.193	29.053	19.528	3.434	3.927	0.000	12.613

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer							
3	28.193	29.053	19.528	3.434	3.927	0.000	12.613
4	28.193	29.053	19.528	3.434	3.927	0.000	12.613
5	28.193	29.053	19.528	3.434	3.927	0.000	12.613

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.144	0.161	0.181	1.479	0.216	1.129	0.268
10	0.227	0.254	0.285	1.705	0.421	1.181	0.369
20	0.382	0.428	0.482	2.150	0.798	1.304	0.559
30	0.522	0.584	0.661	2.589	1.131	1.452	0.734
40	0.648	0.725	0.823	3.021	1.420	1.624	0.895
50	0.759	0.849	0.969	3.447	1.665	1.821	1.041
60	0.850	0.950	1.090	3.739	1.867	1.934	1.156
120	1.128	1.299	1.454	4.417	2.249	2.258	1.507
180	1.221	1.400	1.553	4.737	2.386	2.434	1.622
240	1.293	1.482	1.647	5.052	2.519	2.614	1.721
300	1.363	1.562	1.738	5.362	2.648	2.793	1.817
360	1.431	1.641	1.828	5.667	2.772	2.970	1.912
420	1.498	1.717	1.915	5.967	2.892	3.145	2.005
480	1.563	1.790	2.001	6.262	3.007	3.320	2.095
540	1.626	1.862	2.084	6.551	3.119	3.493	2.183
600	1.687	1.932	2.166	6.836	3.225	3.665	2.269
660	1.747	2.000	2.246	7.116	3.328	3.835	2.353
720	1.805	2.065	2.324	7.391	3.426	4.005	2.435

ALL Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	1.188	1.488	1.851	19.065	2.362	5.510	2.776
10	1.812	2.302	2.897	20.698	4.626	5.256	3.609
20	2.996	3.842	4.882	23.949	8.868	4.844	5.199

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

30	4.094	5.265	6.724	27.181	12.726	4.561	6.689
40	5.105	6.571	8.421	30.394	16.201	4.407	8.078
50	6.030	7.760	9.974	33.588	19.291	4.381	9.366
60	6.869	8.832	11.384	36.763	21.998	4.484	10.554
120	11.376	15.868	17.026	56.252	29.789	8.212	17.349
180	14.355	19.004	18.988	64.087	30.661	10.483	20.558
240	15.164	19.974	20.127	71.274	31.560	12.555	21.967
300	15.922	20.894	21.185	77.814	32.489	14.403	23.274
360	16.626	21.763	22.161	83.706	33.446	16.024	24.479
420	17.279	22.581	23.056	88.950	34.432	17.421	25.582
480	17.879	23.348	23.869	93.547	35.446	18.591	26.583
540	18.428	24.064	24.600	97.497	36.489	19.536	27.482
600	18.923	24.730	25.250	100.799	37.561	20.256	28.278
660	19.367	25.345	25.818	103.454	38.662	20.750	28.973
720	19.758	25.909	26.304	105.461	39.791	21.019	29.565

ALL Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.341	0.434	0.906	0.980	1.064	0.204	0.519
10	0.409	0.526	1.063	1.396	1.603	0.230	0.636
20	0.530	0.687	1.341	2.127	2.550	0.278	0.843
30	0.629	0.820	1.570	2.724	3.322	0.318	1.013
40	0.708	0.924	1.751	3.188	3.918	0.350	1.147
50	0.765	1.000	1.884	3.518	4.339	0.376	1.244
60	0.801	1.048	1.969	3.714	4.585	0.394	1.304
120	0.833	1.093	2.059	3.734	4.614	0.395	1.350
180	0.861	1.124	2.070	3.714	4.597	0.388	1.372
240	0.854	1.116	2.056	3.685	4.571	0.377	1.362
300	0.845	1.104	2.034	3.646	4.537	0.365	1.348
360	0.833	1.089	2.006	3.599	4.493	0.349	1.329
420	0.818	1.070	1.970	3.542	4.440	0.332	1.306
480	0.800	1.047	1.928	3.476	4.378	0.311	1.278
540	0.780	1.021	1.878	3.402	4.308	0.288	1.247
600	0.756	0.991	1.821	3.318	4.228	0.263	1.210
660	0.730	0.958	1.757	3.225	4.139	0.235	1.170
720	0.701	0.920	1.686	3.122	4.042	0.204	1.125

ALL Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.855	12.234	17.676	25.204	4.450	25.276	13.821
10	13.823	15.738	21.923	29.931	8.875	27.881	17.345
20	20.001	23.003	30.896	39.226	17.649	32.959	24.647
30	26.501	30.610	40.510	48.308	26.325	37.859	32.288
40	33.323	38.559	50.765	57.176	34.902	42.582	40.266
50	40.467	46.851	61.660	65.832	43.381	47.128	48.583
60	47.933	55.485	73.196	74.275	51.761	51.496	57.238
120	93.801	107.571	148.459	111.989	88.036	71.699	109.644
180	107.614	123.526	170.052	122.223	104.007	73.536	125.210
240	121.001	138.962	191.099	131.856	119.036	75.267	140.284
300	133.962	153.878	211.601	140.887	133.122	76.893	154.865
360	146.496	168.274	231.557	149.317	146.265	78.413	168.954

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

420	158.603	182.150	250.968	157.146	158.465	79.828	182.550
480	170.285	195.507	269.833	164.373	169.723	81.138	195.654
540	181.539	208.344	288.154	170.998	180.038	82.341	208.266
600	192.368	220.661	305.928	177.022	189.411	83.439	220.385
660	202.770	232.458	323.157	182.445	197.841	84.432	232.012
720	212.745	243.736	339.841	187.266	205.328	85.319	243.146

ALL Pollutant Name: Sul fur Di oxide Temperature: 90F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.001	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.000	0.000
20	0.000	0.000	0.000	0.001	0.000	0.000	0.000
30	0.000	0.000	0.001	0.001	0.000	0.000	0.000
40	0.000	0.000	0.001	0.001	0.001	0.001	0.001
50	0.001	0.001	0.001	0.001	0.001	0.001	0.001
60	0.001	0.001	0.001	0.001	0.001	0.001	0.001
120	0.001	0.001	0.002	0.002	0.001	0.001	0.001
180	0.001	0.002	0.002	0.002	0.002	0.001	0.002
240	0.001	0.002	0.002	0.002	0.002	0.001	0.002
300	0.002	0.002	0.002	0.003	0.002	0.001	0.002
360	0.002	0.002	0.003	0.003	0.002	0.001	0.002
420	0.002	0.002	0.003	0.003	0.002	0.001	0.002
480	0.002	0.002	0.003	0.003	0.002	0.001	0.002
540	0.002	0.002	0.003	0.003	0.002	0.001	0.002
600	0.002	0.003	0.003	0.003	0.002	0.001	0.003
660	0.002	0.003	0.004	0.004	0.003	0.001	0.003
720	0.002	0.003	0.004	0.004	0.003	0.001	0.003

ALL Pollutant Name: PM10 Temperature: 90F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.002	0.001	0.002	0.001	0.014	0.002
10	0.002	0.003	0.002	0.002	0.001	0.013	0.002
20	0.004	0.005	0.003	0.003	0.003	0.010	0.004
30	0.005	0.007	0.004	0.003	0.004	0.008	0.006
40	0.006	0.009	0.005	0.004	0.005	0.006	0.007
50	0.008	0.011	0.007	0.004	0.006	0.005	0.009
60	0.009	0.013	0.007	0.005	0.007	0.004	0.010
120	0.013	0.018	0.011	0.007	0.009	0.010	0.014
180	0.013	0.019	0.012	0.008	0.009	0.015	0.015
240	0.014	0.021	0.012	0.008	0.010	0.020	0.016
300	0.015	0.021	0.013	0.009	0.010	0.024	0.017
360	0.015	0.022	0.013	0.009	0.010	0.028	0.018
420	0.016	0.023	0.014	0.010	0.011	0.031	0.018
480	0.016	0.024	0.014	0.010	0.011	0.033	0.019
540	0.017	0.025	0.015	0.011	0.011	0.035	0.019
600	0.017	0.025	0.015	0.011	0.012	0.036	0.020
660	0.018	0.026	0.015	0.012	0.012	0.037	0.020
720	0.018	0.026	0.016	0.012	0.012	0.037	0.021

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.165	0.182	0.058	0.060	0.046	0.230	0.147
10	0.305	0.338	0.108	0.110	0.085	0.428	0.273
20	0.524	0.580	0.186	0.189	0.147	0.746	0.468
30	0.679	0.751	0.241	0.243	0.191	0.981	0.607
40	0.737	0.816	0.263	0.263	0.208	1.074	0.660

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
 ALL

Temp

Vehi cl e Queui ng degF	Emi ssi ons_North Coast LDA	Emi ssi ons_North Coast LDT	Emi ssi ons_North Coast MDT	Emi ssi ons_North Coast HDT	Emi ssi ons_North Coast UBUS	Emi ssi ons_North Coast MCY	Emi ssi ons_North Coast ALL
90	0.440	0.498	0.172	0.029	0.004	0.585	0.432

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2008/04/14 12:44:43
Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
Season : Summer
Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast	Basin Average	Basin
Average		

Table 5b: Multi-Day Diurnal Loss Emissions
(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.036	0.039	0.013	0.001	0.001	0.048	0.034

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2008/04/14 12:44:43
Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
Season : Summer
Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast	Basin Average	Basin
Average		

Table 6a: Partial Day Resting Loss Emissions
(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.036	0.039	0.013	0.001	0.001	0.048	0.034

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Summer

90 0.225 0.258 0.094 0.017 0.003 0.322 0.224

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Mul ti -Day Resti ng Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reacti ve Org Gases Temperature: ALL Rel ati ve Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.019	0.021	0.007	0.001	0.001	0.028	0.019

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pol l utant Name: Temperature: ALL Rel ati ve Humi di ty:
 ALL

LDA	LDT	MDT	HDT	UBUS	MCY	ALL
-----	-----	-----	-----	------	-----	-----

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

%VMT	0.363	0.438	0.110	0.074	0.002	0.012	1.000
%TRIP	0.337	0.405	0.170	0.072	0.000	0.015	1.000
%VEH	0.370	0.448	0.093	0.039	0.000	0.050	1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast	Basin Average	Basin
Average		

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.055	0.967	0.421	0.262	0.183	0.109	0.511
2	0.060	0.505	0.222	0.144	0.095	0.146	0.280
3	0.065	0.354	0.156	0.105	0.067	0.165	0.206
4	0.070	0.280	0.125	0.086	0.054	0.176	0.170
5	0.072	0.236	0.106	0.074	0.046	0.183	0.150
10	0.080	0.154	0.072	0.051	0.033	0.202	0.111
15	0.084	0.132	0.063	0.044	0.030	0.211	0.101
20	0.087	0.125	0.060	0.040	0.030	0.218	0.099
25	0.089	0.124	0.060	0.039	0.031	0.223	0.099
30	0.089	0.124	0.060	0.038	0.031	0.222	0.099
35	0.089	0.123	0.060	0.038	0.030	0.222	0.099
40	0.089	0.123	0.059	0.038	0.030	0.221	0.098
45	0.089	0.123	0.059	0.038	0.030	0.220	0.098
50	0.087	0.122	0.059	0.038	0.030	0.217	0.097
55	0.085	0.121	0.059	0.038	0.030	0.212	0.096
60	0.083	0.121	0.059	0.038	0.030	0.208	0.095

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Summer

Year: 2010 -- Model Years 1966 to 2010 In clusi ve -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 1: Runni ng Exhaust Emi ssi ons (grams/mi le;
 grams/i dl e-hour)

Pol l utant Name: Reacti ve Org Gases Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	6.254	9.868	0.000	0.000	1.412
1	1.422	1.834	1.222	8.370	2.213	5.007	2.137
2	1.422	1.834	1.222	8.370	2.213	5.007	2.137
3	1.360	1.757	1.182	8.370	2.213	5.007	2.077
4	1.245	1.616	1.109	8.370	2.213	5.007	1.965
5	1.143	1.488	1.043	8.370	2.213	5.007	1.865

Pol l utant Name: Carbon Monoxi de Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	37.487	35.522	0.000	0.000	6.724
1	13.919	21.494	11.797	31.104	21.253	35.226	18.544
2	13.919	21.494	11.797	31.104	21.253	35.226	18.544
3	13.645	21.016	11.624	31.104	21.253	35.226	18.216
4	13.128	20.116	11.298	31.104	21.253	35.226	17.597
5	12.646	19.283	10.994	31.104	21.253	35.226	17.024

Pol l utant Name: Oxi des of Ni trogen Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	12.258	94.041	0.000	0.000	8.259
1	0.673	1.240	1.777	25.141	14.307	0.764	2.865
2	0.673	1.240	1.777	25.141	14.307	0.764	2.865
3	0.662	1.220	1.764	25.141	14.307	0.764	2.851
4	0.641	1.181	1.740	25.141	14.307	0.764	2.824
5	0.622	1.145	1.718	25.141	14.307	0.764	2.799

Pol l utant Name: Carbon Di oxide Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1695.523	5857.587	0.000	0.000	616.689
1	1388.081	1607.151	2079.630	3274.279	2534.676	243.086	1686.017

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

2	1388.081	1607.151	2079.630	3274.279	2534.676	243.086	1686.017
3	1350.432	1563.608	2040.401	3274.279	2534.676	243.086	1648.921
4	1279.836	1481.961	1966.844	3274.279	2534.676	243.086	1579.364
5	1215.029	1407.008	1899.317	3274.279	2534.676	243.086	1515.509

50% Pollutant Name: Sul fur Di oxi de Temperature: 90F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.056	0.000	0.000	0.006
1	0.014	0.016	0.020	0.032	0.025	0.003	0.016
2	0.014	0.016	0.020	0.032	0.025	0.003	0.016
3	0.013	0.015	0.020	0.032	0.025	0.003	0.016
4	0.013	0.015	0.019	0.032	0.025	0.003	0.015
5	0.012	0.014	0.018	0.032	0.025	0.003	0.015

50% Pollutant Name: PM10 Temperature: 90F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.140	1.299	0.000	0.000	0.111
1	0.082	0.125	0.118	1.794	0.434	0.051	0.231
2	0.082	0.125	0.118	1.794	0.434	0.051	0.231
3	0.078	0.120	0.114	1.794	0.434	0.051	0.227
4	0.071	0.110	0.106	1.794	0.434	0.051	0.219
5	0.066	0.102	0.099	1.794	0.434	0.051	0.213

50% Pollutant Name: PM10 - Ti re Wear Temperature: 90F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.010	0.029	0.010	0.004	0.010
2	0.008	0.008	0.010	0.029	0.010	0.004	0.010
3	0.008	0.008	0.010	0.029	0.010	0.004	0.010
4	0.008	0.008	0.010	0.029	0.010	0.004	0.010
5	0.008	0.008	0.010	0.029	0.010	0.004	0.010

50% Pollutant Name: PM10 - Break Wear Temperature: 90F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.024	0.013	0.006	0.013
2	0.013	0.013	0.013	0.024	0.013	0.006	0.013
3	0.013	0.013	0.013	0.024	0.013	0.006	0.013
4	0.013	0.013	0.013	0.024	0.013	0.006	0.013

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer
 5 0.013 0.013 0.013 0.024 0.013 0.006 0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.238	5.139	3.676	3.211	3.442	28.177	5.743
2	6.238	5.139	3.676	3.211	3.442	28.177	5.743
3	6.412	5.283	3.753	3.211	3.442	28.177	5.889
4	6.765	5.578	3.909	3.211	3.442	28.177	6.186
5	7.125	5.878	4.069	3.211	3.442	28.177	6.489

50% Pollutant Name: Diesel - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.244	29.050	19.535	3.450	3.948	0.000	12.377
2	28.244	29.050	19.535	3.450	3.948	0.000	12.377
3	28.244	29.050	19.535	3.450	3.948	0.000	12.377
4	28.244	29.050	19.535	3.450	3.948	0.000	12.377
5	28.244	29.050	19.535	3.450	3.948	0.000	12.377

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.126	0.147	0.156	1.330	0.217	1.054	0.239
10	0.202	0.235	0.253	1.550	0.422	1.117	0.334

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

20	0.345	0.399	0.436	1.981	0.800	1.258	0.513
30	0.474	0.548	0.603	2.402	1.134	1.418	0.677
40	0.589	0.681	0.755	2.813	1.424	1.598	0.828
50	0.691	0.798	0.891	3.214	1.670	1.797	0.965
60	0.775	0.894	1.005	3.493	1.873	1.916	1.073
120	1.036	1.227	1.362	4.130	2.256	2.244	1.408
180	1.121	1.323	1.454	4.427	2.393	2.414	1.515
240	1.187	1.401	1.542	4.719	2.527	2.589	1.607
300	1.252	1.477	1.627	5.006	2.656	2.762	1.697
360	1.314	1.550	1.711	5.288	2.780	2.934	1.785
420	1.376	1.622	1.793	5.565	2.901	3.105	1.871
480	1.435	1.692	1.874	5.837	3.017	3.274	1.955
540	1.493	1.760	1.953	6.104	3.128	3.441	2.037
600	1.550	1.825	2.030	6.367	3.235	3.607	2.117
660	1.604	1.889	2.105	6.625	3.338	3.771	2.195
720	1.657	1.951	2.179	6.877	3.436	3.934	2.272

ALL Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	1.045	1.366	1.603	16.877	2.335	5.180	2.458
10	1.637	2.152	2.590	18.647	4.575	5.018	3.269
20	2.760	3.639	4.463	22.129	8.769	4.774	4.817
30	3.801	5.013	6.201	25.535	12.585	4.638	6.263
40	4.760	6.273	7.805	28.864	16.020	4.608	7.609
50	5.637	7.420	9.274	32.116	19.077	4.684	8.855
60	6.432	8.454	10.609	35.292	21.754	4.868	10.000
120	10.639	15.145	15.926	53.407	29.458	8.586	16.385
180	13.476	18.190	17.797	60.327	30.320	10.705	19.419
240	14.236	19.117	18.874	66.691	31.209	12.654	20.717
300	14.945	19.995	19.870	72.499	32.128	14.395	21.922
360	15.604	20.823	20.785	77.751	33.074	15.928	23.033
420	16.213	21.602	21.620	82.447	34.049	17.253	24.051
480	16.770	22.331	22.373	86.587	35.052	18.370	24.974
540	17.278	23.011	23.045	90.171	36.084	19.279	25.805
600	17.734	23.641	23.637	93.199	37.144	19.980	26.541
660	18.140	24.221	24.148	95.671	38.232	20.474	27.184
720	18.496	24.752	24.577	97.587	39.349	20.759	27.733

ALL Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.334	0.429	0.931	0.936	1.069	0.197	0.516
10	0.397	0.515	1.076	1.341	1.610	0.225	0.626
20	0.508	0.667	1.333	2.053	2.561	0.274	0.821
30	0.600	0.793	1.546	2.634	3.336	0.316	0.981
40	0.673	0.891	1.714	3.085	3.935	0.350	1.107
50	0.726	0.963	1.838	3.406	4.358	0.376	1.199
60	0.759	1.008	1.918	3.596	4.605	0.395	1.256
120	0.792	1.054	2.014	3.616	4.635	0.396	1.303
180	0.819	1.084	2.025	3.597	4.618	0.389	1.325
240	0.813	1.077	2.011	3.570	4.592	0.379	1.316
300	0.804	1.065	1.990	3.534	4.557	0.367	1.302

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

360	0.792	1.050	1.962	3.489	4.513	0.353	1.284
420	0.778	1.032	1.926	3.436	4.460	0.336	1.261
480	0.761	1.010	1.883	3.374	4.398	0.316	1.234
540	0.741	0.984	1.832	3.303	4.327	0.294	1.203
600	0.719	0.955	1.775	3.224	4.247	0.270	1.168
660	0.693	0.922	1.710	3.136	4.158	0.243	1.128
720	0.665	0.886	1.638	3.039	4.060	0.214	1.084

Pollutant Name: Carbon Dioxide

Temperature: 90F

Relative Humidity:

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.803	12.239	17.898	22.906	4.447	23.770	13.655
10	13.615	15.627	21.952	27.435	8.867	26.327	17.033
20	19.507	22.686	30.588	36.345	17.635	31.314	24.070
30	25.757	30.118	39.931	45.057	26.304	36.133	31.483
40	32.364	37.925	49.982	53.571	34.875	40.782	39.274
50	39.329	46.106	60.739	61.888	43.347	45.263	47.441
60	46.652	54.662	72.204	70.007	51.721	49.576	55.986
120	92.895	107.323	149.140	106.201	87.967	69.455	108.983
180	106.544	123.221	170.752	116.420	103.925	71.603	124.493
240	119.805	138.630	191.876	126.038	118.942	73.627	139.546
300	132.679	153.549	212.511	135.055	133.016	75.526	154.141
360	145.166	167.979	232.657	143.471	146.149	77.302	168.280
420	157.265	181.920	252.315	151.286	158.340	78.954	181.960
480	168.977	195.371	271.484	158.501	169.589	80.481	195.184
540	180.301	208.333	290.165	165.115	179.896	81.885	207.950
600	191.239	220.806	308.357	171.128	189.261	83.164	220.258
660	201.789	232.789	326.061	176.540	197.684	84.319	232.109
720	211.951	244.282	343.276	181.351	205.166	85.351	243.503

Pollutant Name: Sulfur Dioxide

Temperature: 90F

Relative Humidity:

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.001	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.000	0.000
20	0.000	0.000	0.000	0.001	0.000	0.000	0.000
30	0.000	0.000	0.000	0.001	0.000	0.000	0.000
40	0.000	0.000	0.001	0.001	0.001	0.001	0.001
50	0.000	0.001	0.001	0.001	0.001	0.001	0.001
60	0.001	0.001	0.001	0.001	0.001	0.001	0.001
120	0.001	0.001	0.002	0.002	0.001	0.001	0.001
180	0.001	0.001	0.002	0.002	0.002	0.001	0.002
240	0.001	0.002	0.002	0.002	0.002	0.001	0.002
300	0.002	0.002	0.002	0.003	0.002	0.001	0.002
360	0.002	0.002	0.003	0.003	0.002	0.001	0.002
420	0.002	0.002	0.003	0.003	0.002	0.001	0.002
480	0.002	0.002	0.003	0.003	0.002	0.001	0.002
540	0.002	0.002	0.003	0.003	0.002	0.001	0.002
600	0.002	0.003	0.003	0.003	0.002	0.001	0.003
660	0.002	0.003	0.004	0.003	0.003	0.001	0.003
720	0.002	0.003	0.004	0.003	0.003	0.001	0.003

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

ALL Pollutant Name: PM10 Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.002	0.001	0.002	0.001	0.013	0.001
10	0.002	0.003	0.002	0.002	0.001	0.012	0.002
20	0.003	0.005	0.003	0.003	0.003	0.009	0.004
30	0.005	0.007	0.004	0.003	0.004	0.007	0.006
40	0.006	0.009	0.005	0.004	0.005	0.006	0.007
50	0.007	0.011	0.007	0.004	0.006	0.004	0.009
60	0.009	0.013	0.008	0.005	0.007	0.004	0.010
120	0.013	0.019	0.011	0.007	0.009	0.009	0.014
180	0.013	0.020	0.012	0.007	0.009	0.014	0.015
240	0.014	0.021	0.012	0.008	0.010	0.019	0.016
300	0.015	0.022	0.013	0.009	0.010	0.022	0.017
360	0.015	0.023	0.014	0.009	0.010	0.026	0.018
420	0.016	0.024	0.014	0.010	0.011	0.029	0.019
480	0.017	0.024	0.015	0.010	0.011	0.031	0.019
540	0.017	0.025	0.015	0.010	0.011	0.033	0.020
600	0.017	0.026	0.015	0.011	0.012	0.034	0.020
660	0.018	0.026	0.016	0.011	0.012	0.035	0.021
720	0.018	0.027	0.016	0.011	0.012	0.035	0.021

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.158	0.179	0.054	0.055	0.048	0.212	0.142
10	0.292	0.331	0.101	0.101	0.089	0.396	0.263
20	0.501	0.568	0.173	0.173	0.153	0.691	0.451
30	0.647	0.735	0.225	0.223	0.198	0.911	0.584
40	0.703	0.799	0.246	0.242	0.216	0.999	0.635

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.416	0.487	0.167	0.028	0.004	0.569	0.417

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.034	0.038	0.013	0.001	0.001	0.048	0.033

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 6a: Parti al Day Resti ng Loss Emi ssi ons

(grams/hour)

ALL Poll utant Name: Reacti ve Org Gases Temperature: ALL Rel ati ve Humi di ty:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.212	0.252	0.092	0.016	0.003	0.313	0.216

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 6b: Mul ti -Day Resti ng Loss Emi ssi ons

(grams/hour)

ALL Poll utant Name: Reacti ve Org Gases Temperature: ALL Rel ati ve Humi di ty:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.018	0.020	0.007	0.001	0.001	0.028	0.018

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.365	0.437	0.110	0.074	0.002	0.013	1.000
%TRIP	0.337	0.405	0.172	0.071	0.000	0.015	1.000
%VEH	0.369	0.448	0.093	0.038	0.000	0.050	1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.049	0.990	0.426	0.278	0.203	0.084	0.519
2	0.053	0.514	0.222	0.151	0.104	0.121	0.282

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

3	0.059	0.359	0.156	0.109	0.073	0.140	0.205
4	0.063	0.283	0.124	0.088	0.059	0.151	0.169
5	0.065	0.238	0.106	0.076	0.050	0.159	0.147
10	0.072	0.153	0.070	0.051	0.035	0.177	0.107
15	0.076	0.130	0.061	0.043	0.032	0.185	0.097
20	0.078	0.122	0.058	0.040	0.031	0.190	0.094
25	0.081	0.120	0.058	0.038	0.032	0.195	0.094
30	0.081	0.120	0.058	0.037	0.032	0.194	0.093
35	0.081	0.119	0.058	0.037	0.032	0.194	0.093
40	0.080	0.119	0.057	0.037	0.032	0.193	0.093
45	0.080	0.119	0.057	0.037	0.032	0.193	0.093
50	0.079	0.118	0.057	0.037	0.031	0.190	0.092
55	0.077	0.118	0.057	0.037	0.031	0.186	0.091
60	0.076	0.117	0.057	0.037	0.031	0.183	0.090

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 1: Running Exhaust Emissions (grams/mile;

grams/minute-hour)

Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity: 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	6.891	6.586	0.000	0.000	1.107
1	0.095	0.168	0.190	1.565	1.251	4.756	0.292
2	0.095	0.168	0.190	1.565	1.251	4.756	0.292
3	0.091	0.160	0.182	1.565	1.251	4.756	0.285
4	0.082	0.144	0.167	1.565	1.251	4.756	0.273
5	0.074	0.130	0.154	1.565	1.251	4.756	0.263

Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity: 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	41.008	32.656	0.000	0.000	6.156
1	1.552	2.365	2.640	5.056	13.489	24.260	2.544
2	1.552	2.365	2.640	5.056	13.489	24.260	2.544
3	1.537	2.340	2.618	5.056	13.489	24.260	2.525

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

4	1.508	2.292	2.576	5.056	13.489	24.260	2.488
5	1.479	2.246	2.534	5.056	13.489	24.260	2.452

50% Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	8.200	98.499	0.000	0.000	7.289
1	0.075	0.138	0.283	4.010	5.183	0.842	0.400
2	0.075	0.138	0.283	4.010	5.183	0.842	0.400
3	0.074	0.135	0.281	4.010	5.183	0.842	0.398
4	0.071	0.131	0.277	4.010	5.183	0.842	0.395
5	0.069	0.128	0.273	4.010	5.183	0.842	0.393

50% Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1661.372	5624.436	0.000	0.000	532.758
1	1382.419	1726.114	2204.861	3105.516	2396.296	266.377	1718.700
2	1382.419	1726.114	2204.861	3105.516	2396.296	266.377	1718.700
3	1345.177	1679.457	2164.265	3105.516	2396.296	266.377	1679.868
4	1275.344	1591.970	2088.143	3105.516	2396.296	266.377	1607.054
5	1211.236	1511.657	2018.264	3105.516	2396.296	266.377	1540.211

50% Pollutant Name: Sulfur Dioxide Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.054	0.000	0.000	0.005
1	0.013	0.017	0.021	0.030	0.023	0.003	0.017
2	0.013	0.017	0.021	0.030	0.023	0.003	0.017
3	0.013	0.016	0.021	0.030	0.023	0.003	0.016
4	0.012	0.015	0.020	0.030	0.023	0.003	0.015
5	0.012	0.015	0.019	0.030	0.023	0.003	0.015

50% Pollutant Name: PM10 Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.083	0.270	0.000	0.000	0.026
1	0.069	0.112	0.127	0.142	0.209	0.030	0.098
2	0.069	0.112	0.127	0.142	0.209	0.030	0.098
3	0.066	0.106	0.122	0.142	0.209	0.030	0.094
4	0.060	0.097	0.112	0.142	0.209	0.030	0.087
5	0.055	0.088	0.104	0.142	0.209	0.030	0.080

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

50% Pollutant Name: PM10 - Tire Wear Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.027	0.010	0.004	0.009
2	0.008	0.008	0.009	0.027	0.010	0.004	0.009
3	0.008	0.008	0.009	0.027	0.010	0.004	0.009
4	0.008	0.008	0.009	0.027	0.010	0.004	0.009
5	0.008	0.008	0.009	0.027	0.010	0.004	0.009

50% Pollutant Name: PM10 - Break Wear Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.023	0.013	0.006	0.013
2	0.013	0.013	0.013	0.023	0.013	0.006	0.013
3	0.013	0.013	0.013	0.023	0.013	0.006	0.013
4	0.013	0.013	0.013	0.023	0.013	0.006	0.013
5	0.013	0.013	0.013	0.023	0.013	0.006	0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.396	5.104	3.687	3.506	3.471	27.709	5.766
2	6.396	5.104	3.687	3.506	3.471	27.709	5.766
3	6.573	5.246	3.761	3.506	3.471	27.709	5.912
4	6.933	5.534	3.912	3.506	3.471	27.709	6.210
5	7.299	5.828	4.066	3.506	3.471	27.709	6.513

50% Pollutant Name: Diesel - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.449	3.765	4.429	0.000	6.692
2	29.156	29.156	19.449	3.765	4.429	0.000	6.692
3	29.156	29.156	19.449	3.765	4.429	0.000	6.692
4	29.156	29.156	19.449	3.765	4.429	0.000	6.692
5	29.156	29.156	19.449	3.765	4.429	0.000	6.692

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.005	0.009	0.030	0.049	0.203	0.592	0.023
10	0.009	0.018	0.060	0.096	0.397	0.731	0.038
20	0.017	0.034	0.118	0.182	0.752	0.998	0.068
30	0.025	0.050	0.174	0.258	1.066	1.250	0.096
40	0.032	0.064	0.228	0.325	1.339	1.487	0.122
50	0.039	0.077	0.280	0.381	1.570	1.710	0.146
60	0.045	0.089	0.331	0.427	1.760	1.872	0.168
120	0.071	0.136	0.589	0.514	2.120	2.242	0.254
180	0.078	0.148	0.624	0.545	2.250	2.377	0.272
240	0.083	0.157	0.665	0.576	2.375	2.528	0.289
300	0.087	0.166	0.705	0.605	2.496	2.675	0.306
360	0.092	0.175	0.745	0.634	2.613	2.820	0.323
420	0.097	0.184	0.785	0.661	2.726	2.962	0.339
480	0.101	0.193	0.825	0.687	2.835	3.100	0.355
540	0.106	0.201	0.865	0.713	2.940	3.236	0.371
600	0.110	0.210	0.905	0.737	3.041	3.368	0.387
660	0.115	0.218	0.945	0.761	3.137	3.498	0.403
720	0.119	0.226	0.984	0.783	3.230	3.624	0.418

ALL Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.065	0.118	0.413	0.752	1.835	3.021	0.239
10	0.129	0.234	0.819	1.473	3.596	3.491	0.435
20	0.252	0.455	1.603	2.823	6.894	4.399	0.809
30	0.369	0.664	2.355	4.051	9.894	5.266	1.162
40	0.479	0.859	3.072	5.157	12.595	6.090	1.493
50	0.584	1.043	3.757	6.141	14.998	6.872	1.802
60	0.681	1.213	4.407	7.003	17.103	7.612	2.090
120	1.102	1.957	7.253	9.483	23.160	11.341	3.271
180	1.576	2.729	8.304	9.760	23.837	12.465	3.969
240	1.710	2.943	9.077	10.047	24.536	13.605	4.279

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

300	1.828	3.133	9.755	10.342	25.258	14.653	4.555
360	1.930	3.299	10.336	10.647	26.002	15.609	4.798
420	2.017	3.442	10.822	10.961	26.768	16.474	5.007
480	2.088	3.561	11.212	11.284	27.557	17.248	5.183
540	2.144	3.657	11.505	11.616	28.367	17.930	5.326
600	2.183	3.729	11.703	11.957	29.201	18.520	5.436
660	2.208	3.777	11.805	12.307	30.056	19.019	5.512
720	2.216	3.802	11.810	12.667	30.934	19.427	5.554

ALL Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.046	0.091	0.808	0.207	0.993	0.148	0.218
10	0.049	0.097	0.830	0.312	1.497	0.186	0.232
20	0.054	0.108	0.870	0.496	2.381	0.253	0.259
30	0.058	0.118	0.907	0.646	3.101	0.309	0.281
40	0.062	0.126	0.941	0.761	3.658	0.353	0.300
50	0.065	0.132	0.970	0.843	4.051	0.385	0.315
60	0.067	0.137	0.997	0.891	4.280	0.406	0.325
120	0.073	0.148	1.102	0.897	4.308	0.407	0.352
180	0.076	0.154	1.105	0.893	4.292	0.403	0.355
240	0.075	0.153	1.096	0.888	4.268	0.397	0.353
300	0.074	0.151	1.081	0.882	4.235	0.389	0.348
360	0.073	0.148	1.060	0.873	4.194	0.380	0.342
420	0.071	0.145	1.033	0.863	4.145	0.369	0.335
480	0.069	0.141	1.000	0.851	4.088	0.356	0.325
540	0.067	0.136	0.962	0.837	4.022	0.342	0.314
600	0.064	0.131	0.917	0.822	3.947	0.326	0.302
660	0.061	0.125	0.866	0.804	3.865	0.309	0.287
720	0.058	0.118	0.809	0.785	3.774	0.290	0.271

ALL Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.260	15.236	22.138	2.663	4.842	13.082	14.703
10	13.738	17.144	24.812	5.311	9.658	15.272	16.660
20	17.197	21.581	31.071	10.564	19.209	19.573	21.157
30	21.328	26.846	38.543	15.758	28.652	23.768	26.432
40	26.130	32.941	47.227	20.892	37.989	27.857	32.485
50	31.605	39.864	57.124	25.968	47.218	31.840	39.316
60	37.752	47.615	68.233	30.985	56.340	35.716	46.924
120	88.189	110.625	159.337	52.700	95.824	53.118	107.671
180	100.075	125.610	180.819	62.261	113.209	57.390	122.324
240	111.948	140.563	202.277	71.257	129.568	61.412	136.917
300	123.809	155.482	223.710	79.690	144.901	65.183	151.448
360	135.657	170.368	245.119	87.558	159.208	68.703	165.917
420	147.492	185.221	266.502	94.862	172.488	71.972	180.326
480	159.314	200.041	287.861	101.601	184.743	74.991	194.673
540	171.124	214.828	309.195	107.776	195.971	77.759	208.959
600	182.920	229.581	330.505	113.387	206.173	80.276	223.183
660	194.704	244.302	351.790	118.433	215.349	82.542	237.346
720	206.475	258.989	373.050	122.916	223.499	84.557	251.448

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Summer

ALL Poll utant Name: Sul fur Di oxi de Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.001	0.000	0.001	0.000	0.000
50	0.000	0.000	0.001	0.000	0.001	0.000	0.000
60	0.000	0.000	0.001	0.000	0.001	0.001	0.000
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.002	0.001	0.001
240	0.001	0.001	0.002	0.001	0.002	0.001	0.001
300	0.001	0.002	0.002	0.001	0.002	0.001	0.002
360	0.001	0.002	0.003	0.001	0.002	0.001	0.002
420	0.001	0.002	0.003	0.001	0.002	0.001	0.002
480	0.002	0.002	0.003	0.001	0.002	0.001	0.002
540	0.002	0.002	0.003	0.001	0.002	0.001	0.002
600	0.002	0.002	0.003	0.001	0.003	0.001	0.002
660	0.002	0.002	0.004	0.001	0.003	0.001	0.002
720	0.002	0.003	0.004	0.001	0.003	0.001	0.003

ALL Poll utant Name: PM10 Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.000	0.001	0.007	0.001
10	0.001	0.002	0.001	0.001	0.002	0.006	0.001
20	0.002	0.003	0.003	0.001	0.003	0.005	0.003
30	0.003	0.005	0.004	0.002	0.004	0.004	0.004
40	0.004	0.006	0.006	0.002	0.005	0.003	0.005
50	0.005	0.008	0.007	0.003	0.006	0.003	0.006
60	0.006	0.009	0.008	0.003	0.007	0.003	0.007
120	0.009	0.015	0.013	0.004	0.010	0.006	0.012
180	0.010	0.016	0.015	0.004	0.010	0.008	0.013
240	0.011	0.018	0.016	0.004	0.011	0.010	0.014
300	0.012	0.019	0.017	0.005	0.011	0.012	0.015
360	0.013	0.020	0.018	0.005	0.011	0.014	0.016
420	0.013	0.021	0.019	0.005	0.012	0.015	0.017
480	0.014	0.022	0.020	0.005	0.012	0.017	0.018
540	0.014	0.023	0.020	0.005	0.012	0.018	0.018
600	0.014	0.023	0.021	0.005	0.013	0.018	0.018
660	0.014	0.023	0.021	0.005	0.013	0.019	0.019
720	0.015	0.023	0.021	0.006	0.013	0.019	0.019

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.023	0.049	0.026	0.004	0.042	0.158	0.035
10	0.042	0.090	0.049	0.007	0.078	0.295	0.064
20	0.071	0.154	0.084	0.012	0.134	0.518	0.110
30	0.092	0.199	0.109	0.016	0.172	0.686	0.142
40	0.100	0.216	0.118	0.017	0.186	0.754	0.154

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

ALL Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.044	0.126	0.101	0.004	0.004	0.552	0.111

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	90	0.004	0.010	0.006	0.000	0.001	0.052	0.009

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	90	0.024	0.074	0.068	0.003	0.002	0.319	0.065

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

ALL	Pollutant Name: Reactive Org Gases	Temperature: ALL					Relative Humidity:	
Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
90	0.002	0.006	0.004	0.000	0.001	0.032	0.005	

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

ALL	Pollutant Name:		Temperature: ALL					Relative Humidity:
	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
%VMT	0.375	0.448	0.098	0.066	0.002	0.012	1.000	
%TRIP	0.336	0.400	0.186	0.062	0.000	0.015	1.000	
%VEH	0.368	0.448	0.095	0.036	0.000	0.052	1.000	

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 8: Evaporative Running Loss Emissions

(grams/minute)

ALL Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.006	0.314	0.316	0.073	0.514	0.003	0.179
2	0.005	0.159	0.161	0.037	0.259	0.036	0.092
3	0.007	0.110	0.111	0.025	0.175	0.054	0.065
4	0.008	0.087	0.088	0.020	0.134	0.064	0.053
5	0.009	0.073	0.075	0.017	0.110	0.070	0.046
10	0.011	0.047	0.049	0.010	0.064	0.083	0.032
15	0.012	0.040	0.043	0.009	0.050	0.087	0.028
20	0.012	0.037	0.041	0.008	0.045	0.089	0.027
25	0.013	0.036	0.041	0.008	0.044	0.090	0.027
30	0.013	0.036	0.041	0.008	0.043	0.089	0.026
35	0.013	0.036	0.040	0.008	0.043	0.089	0.026
40	0.013	0.036	0.040	0.008	0.043	0.088	0.026
45	0.012	0.035	0.040	0.008	0.043	0.088	0.026
50	0.012	0.035	0.040	0.008	0.043	0.088	0.026
55	0.012	0.035	0.040	0.008	0.042	0.087	0.026
60	0.012	0.035	0.040	0.008	0.042	0.087	0.026

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Summer
 Table 1: Runni ng Exhaust Emi ssi ons (grams/mi le;
 grams/i dl e-hour)

50% Pol l utant Name: Reacti ve Org Gases Temperature: 90F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	6.908	6.576	0.000	0.000	1.104
1	0.089	0.152	0.182	1.543	1.228	4.756	0.279
2	0.089	0.152	0.182	1.543	1.228	4.756	0.279
3	0.084	0.144	0.174	1.543	1.228	4.756	0.273
4	0.076	0.130	0.159	1.543	1.228	4.756	0.262
5	0.068	0.117	0.146	1.543	1.228	4.756	0.252

50% Pol l utant Name: Carbon Monoxi de Temperature: 90F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	41.073	32.677	0.000	0.000	6.145
1	1.497	2.205	2.580	4.989	13.335	24.254	2.439
2	1.497	2.205	2.580	4.989	13.335	24.254	2.439
3	1.483	2.183	2.558	4.989	13.335	24.254	2.422
4	1.454	2.139	2.517	4.989	13.335	24.254	2.387
5	1.427	2.097	2.477	4.989	13.335	24.254	2.354

50% Pol l utant Name: Oxi des of Ni trogen Temperature: 90F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	8.158	98.284	0.000	0.000	7.227
1	0.071	0.124	0.267	3.936	4.794	0.842	0.384
2	0.071	0.124	0.267	3.936	4.794	0.842	0.384
3	0.070	0.123	0.265	3.936	4.794	0.842	0.383
4	0.068	0.119	0.261	3.936	4.794	0.842	0.380
5	0.066	0.116	0.258	3.936	4.794	0.842	0.377

50% Pol l utant Name: Carbon Di oxi de Temperature: 90F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1661.141	5613.342	0.000	0.000	529.361
1	1382.408	1727.423	2206.223	3099.438	2390.352	266.391	1718.414
2	1382.408	1727.423	2206.223	3099.438	2390.352	266.391	1718.414
3	1345.168	1680.728	2165.614	3099.438	2390.352	266.391	1679.541
4	1275.338	1593.170	2089.468	3099.438	2390.352	266.391	1606.651
5	1211.234	1512.791	2019.566	3099.438	2390.352	266.391	1539.738

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

50% Pollutant Name: Sul fur Di oxide Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.054	0.000	0.000	0.005
1	0.013	0.017	0.021	0.030	0.023	0.003	0.017
2	0.013	0.017	0.021	0.030	0.023	0.003	0.017
3	0.013	0.016	0.021	0.030	0.023	0.003	0.016
4	0.012	0.015	0.020	0.030	0.023	0.003	0.015
5	0.012	0.015	0.019	0.030	0.023	0.003	0.015

50% Pollutant Name: PM10 Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.082	0.266	0.000	0.000	0.025
1	0.069	0.111	0.127	0.140	0.199	0.030	0.098
2	0.069	0.111	0.127	0.140	0.199	0.030	0.098
3	0.066	0.106	0.122	0.140	0.199	0.030	0.094
4	0.060	0.096	0.112	0.140	0.199	0.030	0.086
5	0.055	0.088	0.103	0.140	0.199	0.030	0.080

50% Pollutant Name: PM10 - Tire Wear Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.027	0.010	0.004	0.009
2	0.008	0.008	0.009	0.027	0.010	0.004	0.009
3	0.008	0.008	0.009	0.027	0.010	0.004	0.009
4	0.008	0.008	0.009	0.027	0.010	0.004	0.009
5	0.008	0.008	0.009	0.027	0.010	0.004	0.009

50% Pollutant Name: PM10 - Break Wear Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.022	0.013	0.006	0.013
2	0.013	0.013	0.013	0.022	0.013	0.006	0.013
3	0.013	0.013	0.013	0.022	0.013	0.006	0.013
4	0.013	0.013	0.013	0.022	0.013	0.006	0.013
5	0.013	0.013	0.013	0.022	0.013	0.006	0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 90F Relative Humidity:

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.397	5.104	3.687	3.507	3.472	27.709	5.765
2	6.397	5.104	3.687	3.507	3.472	27.709	5.765
3	6.574	5.246	3.761	3.507	3.472	27.709	5.911
4	6.933	5.534	3.912	3.507	3.472	27.709	6.208
5	7.300	5.828	4.066	3.507	3.472	27.709	6.512

Pollutant Name: Diesel - mi/gal Temperature: 90F Relative Humidity: 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.446	3.775	4.457	0.000	6.614
2	29.156	29.156	19.446	3.775	4.457	0.000	6.614
3	29.156	29.156	19.446	3.775	4.457	0.000	6.614
4	29.156	29.156	19.446	3.775	4.457	0.000	6.614
5	29.156	29.156	19.446	3.775	4.457	0.000	6.614

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.004	0.008	0.029	0.047	0.205	0.591	0.022
10	0.008	0.015	0.058	0.092	0.400	0.731	0.037
20	0.015	0.030	0.115	0.174	0.758	0.998	0.065
30	0.022	0.043	0.170	0.247	1.075	1.250	0.091
40	0.029	0.056	0.224	0.311	1.350	1.487	0.116
50	0.035	0.067	0.276	0.364	1.583	1.710	0.139
60	0.040	0.078	0.326	0.408	1.775	1.872	0.159
120	0.064	0.122	0.583	0.492	2.138	2.243	0.244
180	0.071	0.133	0.618	0.522	2.269	2.377	0.261

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

240	0.075	0.141	0.658	0.551	2.395	2.528	0.277
300	0.079	0.149	0.698	0.579	2.517	2.675	0.293
360	0.084	0.157	0.737	0.606	2.635	2.820	0.309
420	0.088	0.165	0.777	0.632	2.749	2.962	0.325
480	0.092	0.173	0.817	0.658	2.859	3.100	0.341
540	0.096	0.181	0.856	0.682	2.965	3.236	0.356
600	0.101	0.188	0.896	0.705	3.066	3.368	0.372
660	0.105	0.196	0.935	0.728	3.164	3.498	0.387
720	0.109	0.203	0.975	0.749	3.257	3.624	0.402

ALL Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.061	0.106	0.410	0.725	1.841	3.017	0.230
10	0.120	0.210	0.812	1.421	3.606	3.488	0.417
20	0.234	0.409	1.591	2.724	6.914	4.399	0.776
30	0.343	0.598	2.337	3.909	9.922	5.267	1.114
40	0.446	0.775	3.050	4.977	12.631	6.093	1.432
50	0.543	0.942	3.730	5.926	15.041	6.877	1.729
60	0.635	1.097	4.377	6.758	17.151	7.618	2.006
120	1.031	1.775	7.212	9.151	23.225	11.347	3.145
180	1.484	2.502	8.255	9.419	23.904	12.470	3.816
240	1.613	2.706	9.029	9.695	24.605	13.608	4.119
300	1.726	2.887	9.706	9.980	25.329	14.654	4.390
360	1.824	3.044	10.286	10.274	26.075	15.610	4.627
420	1.907	3.179	10.771	10.577	26.844	16.474	4.830
480	1.975	3.290	11.159	10.889	27.634	17.247	5.001
540	2.027	3.377	11.451	11.209	28.448	17.928	5.139
600	2.064	3.442	11.647	11.538	29.283	18.519	5.243
660	2.086	3.484	11.746	11.876	30.141	19.018	5.314
720	2.092	3.502	11.750	12.223	31.021	19.426	5.352

ALL Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.044	0.084	0.803	0.196	1.002	0.148	0.213
10	0.046	0.089	0.824	0.296	1.509	0.186	0.226
20	0.050	0.099	0.862	0.471	2.400	0.253	0.250
30	0.054	0.107	0.897	0.613	3.126	0.309	0.271
40	0.057	0.113	0.929	0.723	3.688	0.353	0.289
50	0.059	0.119	0.958	0.801	4.084	0.385	0.302
60	0.061	0.123	0.983	0.846	4.315	0.406	0.312
120	0.067	0.133	1.088	0.851	4.343	0.407	0.338
180	0.069	0.138	1.091	0.848	4.327	0.403	0.342
240	0.069	0.137	1.082	0.844	4.303	0.397	0.339
300	0.068	0.136	1.067	0.837	4.270	0.389	0.335
360	0.067	0.133	1.047	0.829	4.229	0.380	0.329
420	0.065	0.130	1.020	0.819	4.179	0.369	0.321
480	0.063	0.127	0.988	0.808	4.121	0.357	0.312
540	0.061	0.122	0.949	0.795	4.054	0.342	0.302
600	0.058	0.117	0.905	0.780	3.979	0.326	0.289
660	0.056	0.112	0.854	0.764	3.896	0.309	0.275
720	0.052	0.105	0.798	0.746	3.804	0.290	0.260

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Summer

ALL Poll utant Name: Carbon Di oxi de Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.281	15.308	22.195	2.665	4.879	13.059	14.753
10	13.750	17.196	24.861	5.315	9.731	15.249	16.697
20	17.193	21.598	31.104	10.571	19.354	19.548	21.172
30	21.310	26.834	38.565	15.768	28.868	23.742	26.430
40	26.101	32.906	47.243	20.906	38.275	27.829	32.469
50	31.566	39.813	57.138	25.985	47.574	31.811	39.291
60	37.705	47.556	68.251	31.006	56.765	35.686	46.895
120	88.176	110.730	159.516	52.735	96.547	53.082	107.762
180	100.048	125.699	181.005	62.303	114.063	57.359	122.408
240	111.910	140.642	202.474	71.305	130.546	61.385	136.998
300	123.763	155.559	223.922	79.743	145.994	65.159	151.531
360	135.605	170.450	245.349	87.617	160.409	68.683	166.006
420	147.437	185.314	266.755	94.926	173.789	71.955	180.425
480	159.259	200.152	288.140	101.670	186.136	74.977	194.787
540	171.071	214.964	309.505	107.849	197.449	77.747	209.093
600	182.873	229.749	330.848	113.463	207.729	80.267	223.341
660	194.665	244.508	352.171	118.513	216.974	82.535	237.533
720	206.447	259.241	373.473	122.999	225.186	84.552	251.667

ALL Poll utant Name: Sul fur Di oxi de Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.001	0.000	0.001	0.000	0.000
50	0.000	0.000	0.001	0.000	0.001	0.000	0.000
60	0.000	0.000	0.001	0.000	0.001	0.001	0.000
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.002	0.001	0.001
240	0.001	0.001	0.002	0.001	0.002	0.001	0.001
300	0.001	0.002	0.002	0.001	0.002	0.001	0.002
360	0.001	0.002	0.003	0.001	0.002	0.001	0.002
420	0.001	0.002	0.003	0.001	0.002	0.001	0.002
480	0.002	0.002	0.003	0.001	0.002	0.001	0.002
540	0.002	0.002	0.003	0.001	0.002	0.001	0.002
600	0.002	0.002	0.003	0.001	0.003	0.001	0.002
660	0.002	0.002	0.004	0.001	0.003	0.001	0.002
720	0.002	0.003	0.004	0.001	0.003	0.001	0.003

ALL Poll utant Name: PM10 Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer

5	0.001	0.001	0.001	0.000	0.001	0.007	0.001
10	0.001	0.002	0.001	0.001	0.002	0.006	0.001
20	0.002	0.003	0.003	0.001	0.003	0.005	0.003
30	0.003	0.005	0.004	0.002	0.004	0.004	0.004
40	0.004	0.006	0.005	0.002	0.005	0.003	0.005
50	0.005	0.008	0.007	0.003	0.006	0.003	0.006
60	0.006	0.009	0.008	0.003	0.007	0.003	0.007
120	0.009	0.015	0.013	0.004	0.010	0.006	0.012
180	0.010	0.016	0.015	0.004	0.010	0.008	0.013
240	0.011	0.018	0.016	0.004	0.011	0.010	0.014
300	0.012	0.019	0.017	0.005	0.011	0.012	0.015
360	0.013	0.020	0.018	0.005	0.011	0.014	0.016
420	0.013	0.021	0.019	0.005	0.012	0.015	0.017
480	0.014	0.022	0.020	0.005	0.012	0.017	0.018
540	0.014	0.022	0.020	0.005	0.012	0.018	0.018
600	0.014	0.023	0.021	0.005	0.013	0.018	0.018
660	0.014	0.023	0.021	0.005	0.013	0.019	0.019
720	0.014	0.023	0.021	0.006	0.014	0.019	0.019

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.020	0.044	0.026	0.004	0.042	0.158	0.032
10	0.037	0.082	0.048	0.007	0.078	0.295	0.059
20	0.064	0.140	0.082	0.011	0.134	0.518	0.101
30	0.083	0.180	0.107	0.015	0.172	0.685	0.131
40	0.090	0.195	0.116	0.016	0.187	0.753	0.142

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer
 Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

ALL Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.037	0.113	0.099	0.004	0.004	0.552	0.103

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

ALL Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.003	0.008	0.006	0.000	0.001	0.052	0.008

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.020	0.068	0.067	0.003	0.003	0.319	0.061

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.002	0.005	0.004	0.000	0.001	0.032	0.005

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.375	0.449	0.098	0.065	0.002	0.012	1.000
%TRIP	0.336	0.401	0.186	0.062	0.000	0.015	1.000
%VEH	0.368	0.448	0.095	0.036	0.000	0.052	1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:44:43
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 90F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.005	0.280	0.309	0.066	0.532	0.003	0.163
2	0.005	0.142	0.157	0.033	0.268	0.036	0.084
3	0.006	0.098	0.109	0.023	0.181	0.053	0.060
4	0.008	0.078	0.086	0.018	0.139	0.063	0.048
5	0.009	0.066	0.073	0.015	0.114	0.070	0.042
10	0.011	0.043	0.048	0.009	0.065	0.083	0.030
15	0.012	0.037	0.042	0.008	0.052	0.087	0.027
20	0.012	0.035	0.040	0.007	0.046	0.089	0.026
25	0.012	0.034	0.040	0.007	0.044	0.089	0.025

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Summer							
30	0.012	0.034	0.040	0.007	0.044	0.089	0.025
35	0.012	0.034	0.040	0.007	0.044	0.089	0.025
40	0.012	0.033	0.040	0.007	0.044	0.088	0.025
45	0.012	0.033	0.040	0.007	0.044	0.088	0.025
50	0.012	0.033	0.040	0.007	0.044	0.087	0.025
55	0.012	0.033	0.040	0.007	0.043	0.087	0.025
60	0.012	0.033	0.039	0.007	0.043	0.087	0.025

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter
 Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 1: Running Exhaust Emissions (grams/mile;
 grams/minute-hour)

50% Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	5.907	12.271	0.000	0.000	1.578
1	1.629	2.009	1.301	9.782	2.170	6.881	2.438
2	1.629	2.009	1.301	9.782	2.170	6.881	2.438
3	1.560	1.927	1.262	9.782	2.170	6.881	2.373
4	1.433	1.775	1.190	9.782	2.170	6.881	2.252
5	1.318	1.639	1.126	9.782	2.170	6.881	2.144

50% Pollutant Name: Carbon Monoxide Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	35.523	59.981	0.000	0.000	8.454
1	15.101	22.899	13.387	39.148	20.411	54.419	20.634
2	15.101	22.899	13.387	39.148	20.411	54.419	20.634
3	14.753	22.326	13.177	39.148	20.411	54.419	20.234
4	14.099	21.251	12.780	39.148	20.411	54.419	19.482
5	13.495	20.262	12.415	39.148	20.411	54.419	18.789

50% Pollutant Name: Oxides of Nitrogen Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	13.496	84.940	0.000	0.000	7.884
1	1.450	2.519	3.113	37.244	19.564	1.389	4.824
2	1.450	2.519	3.113	37.244	19.564	1.389	4.824
3	1.426	2.476	3.087	37.244	19.564	1.389	4.794
4	1.382	2.396	3.038	37.244	19.564	1.389	4.737
5	1.340	2.321	2.993	37.244	19.564	1.389	4.684

Pollutant Name: Carbon Dioxide Temperature: 35F Relative Humidity:

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1683.326	5225.766	0.000	0.000	579.769
1	1133.358	1319.459	1769.543	3289.385	2548.753	232.525	1439.026
2	1133.358	1319.459	1769.543	3289.385	2548.753	232.525	1439.026
3	1098.264	1279.154	1733.319	3289.385	2548.753	232.525	1404.649
4	1032.461	1203.579	1665.397	3289.385	2548.753	232.525	1340.189
5	972.053	1134.200	1603.045	3289.385	2548.753	232.525	1281.014

Pollutant Name: Sul fur Di oxide Temperature: 35F Relative Humidity:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.050	0.000	0.000	0.006
1	0.011	0.013	0.017	0.032	0.025	0.003	0.014
2	0.011	0.013	0.017	0.032	0.025	0.003	0.014
3	0.011	0.013	0.017	0.032	0.025	0.003	0.014
4	0.010	0.012	0.016	0.032	0.025	0.003	0.013
5	0.010	0.011	0.016	0.032	0.025	0.003	0.013

Pollutant Name: PM10 Temperature: 35F Relative Humidity:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.158	2.111	0.000	0.000	0.176
1	0.082	0.122	0.114	2.251	0.455	0.061	0.267
2	0.082	0.122	0.114	2.251	0.455	0.061	0.267
3	0.079	0.117	0.110	2.251	0.455	0.061	0.263
4	0.072	0.108	0.103	2.251	0.455	0.061	0.256
5	0.066	0.100	0.097	2.251	0.455	0.061	0.249

Pollutant Name: PM10 - Tire Wear Temperature: 35F Relative Humidity:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.010	0.029	0.010	0.004	0.010
2	0.008	0.008	0.010	0.029	0.010	0.004	0.010
3	0.008	0.008	0.010	0.029	0.010	0.004	0.010
4	0.008	0.008	0.010	0.029	0.010	0.004	0.010
5	0.008	0.008	0.010	0.029	0.010	0.004	0.010

Pollutant Name: PM10 - Break Wear Temperature: 35F Relative Humidity:
50%

Speed

Vehicle Queuing MPH	Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter						
	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.024	0.013	0.006	0.013
2	0.013	0.013	0.013	0.024	0.013	0.006	0.013
3	0.013	0.013	0.013	0.024	0.013	0.006	0.013
4	0.013	0.013	0.013	0.024	0.013	0.006	0.013
5	0.013	0.013	0.013	0.024	0.013	0.006	0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	7.619	6.220	4.332	3.165	3.448	26.253	6.841
2	7.619	6.220	4.332	3.165	3.448	26.253	6.841
3	7.862	6.418	4.443	3.165	3.448	26.253	7.044
4	8.363	6.827	4.671	3.165	3.448	26.253	7.461
5	8.881	7.250	4.908	3.165	3.448	26.253	7.894

50% Pollutant Name: Diesel - mi/gal Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.128	29.050	19.516	3.417	3.908	0.000	12.829
2	28.128	29.050	19.516	3.417	3.908	0.000	12.829
3	28.128	29.050	19.516	3.417	3.908	0.000	12.829
4	28.128	29.050	19.516	3.417	3.908	0.000	12.829
5	28.128	29.050	19.516	3.417	3.908	0.000	12.829

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Wi nter

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.505	0.563	0.623	5.112	0.457	3.808	0.935
10	0.785	0.885	0.938	5.897	0.891	3.994	1.273
20	1.308	1.485	1.532	7.448	1.689	4.428	1.913
30	1.781	2.028	2.074	8.974	2.394	4.943	2.504
40	2.206	2.512	2.565	10.475	3.007	5.538	3.045
50	2.581	2.939	3.004	11.951	3.526	6.213	3.537
60	2.886	3.285	3.363	12.968	3.953	6.603	3.921
120	2.830	2.826	2.486	5.302	2.497	2.968	2.953
180	1.508	1.687	1.846	5.698	2.649	2.950	1.965
240	1.597	1.786	1.957	6.089	2.797	3.176	2.087
300	1.684	1.883	2.067	6.474	2.940	3.401	2.205
360	1.769	1.978	2.174	6.855	3.078	3.625	2.322
420	1.852	2.070	2.278	7.230	3.211	3.848	2.436
480	1.933	2.160	2.381	7.600	3.339	4.070	2.547
540	2.011	2.247	2.481	7.964	3.463	4.291	2.655
600	2.088	2.331	2.579	8.324	3.581	4.511	2.762
660	2.162	2.413	2.674	8.678	3.695	4.730	2.865
720	2.234	2.493	2.767	9.027	3.804	4.948	2.966

Poll utant Name: Carbon Monoxi de Temperature: 35F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	3.476	4.535	6.412	35.580	8.837	6.907	6.799
10	6.256	8.255	11.706	52.487	17.313	8.067	11.393
20	11.501	15.260	21.687	84.351	33.189	10.305	20.052
30	16.325	21.684	30.857	113.618	47.630	12.430	28.005
40	20.727	27.528	39.217	140.288	60.634	14.443	35.252
50	24.708	32.792	46.765	164.359	72.202	16.344	41.792
60	28.267	37.475	53.502	185.834	82.334	18.133	47.626
120	32.741	37.742	33.101	58.182	31.288	12.131	36.385
180	18.193	23.710	21.272	68.737	32.203	11.362	24.548
240	19.226	24.932	22.618	78.344	33.148	14.103	26.363
300	20.193	26.090	23.867	87.004	34.124	16.534	28.040
360	21.095	27.186	25.018	94.717	35.129	18.655	29.578
420	21.932	28.218	26.072	101.481	36.164	20.465	30.979
480	22.704	29.187	27.028	107.298	37.230	21.965	32.242
540	23.411	30.093	27.887	112.167	38.326	23.154	33.367
600	24.053	30.935	28.649	116.089	39.451	24.033	34.354
660	24.630	31.715	29.314	119.063	40.607	24.602	35.203
720	25.142	32.431	29.881	121.089	41.793	24.860	35.914

Poll utant Name: Oxi des of Ni trogen Temperature: 35F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.460	0.584	1.116	1.314	1.343	0.287	0.680
10	0.558	0.713	1.335	1.855	2.024	0.320	0.843
20	0.732	0.941	1.722	2.807	3.219	0.380	1.130
30	0.875	1.129	2.041	3.585	4.193	0.430	1.366

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

40	0.987	1.276	2.291	4.189	4.946	0.472	1.551
50	1.069	1.383	2.474	4.619	5.478	0.505	1.685
60	1.120	1.450	2.589	4.876	5.788	0.529	1.767
120	1.179	1.546	2.747	5.062	5.987	0.558	1.867
180	1.299	1.680	2.821	5.033	5.965	0.548	1.972
240	1.289	1.668	2.802	4.991	5.932	0.532	1.957
300	1.276	1.650	2.773	4.936	5.886	0.513	1.936
360	1.257	1.627	2.735	4.868	5.829	0.490	1.909
420	1.235	1.599	2.688	4.787	5.761	0.463	1.876
480	1.209	1.566	2.632	4.694	5.681	0.432	1.837
540	1.178	1.527	2.567	4.587	5.589	0.397	1.791
600	1.143	1.483	2.492	4.468	5.486	0.359	1.740
660	1.104	1.433	2.408	4.335	5.371	0.317	1.682
720	1.061	1.379	2.315	4.190	5.244	0.271	1.618

Pollutant Name: Carbon Dioxide Temperature: 35F Relative Humidity:

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.894	12.231	17.451	27.618	4.442	26.932	13.998
10	14.019	15.851	21.926	32.551	8.857	29.590	17.676
20	20.484	23.324	31.297	42.246	17.614	34.766	25.255
30	27.235	31.108	41.229	51.712	26.272	39.755	33.132
40	34.273	39.202	51.723	60.948	34.832	44.556	41.307
50	41.598	47.607	62.779	69.955	43.294	49.171	49.779
60	49.209	56.323	74.396	78.733	51.658	53.598	58.549
120	94.700	107.852	147.665	118.023	87.860	74.151	110.321
180	108.684	123.870	169.217	128.264	103.799	75.642	125.941
240	122.202	139.338	190.158	137.903	118.798	77.049	141.032
300	135.254	154.256	210.487	146.941	132.855	78.370	155.593
360	147.840	168.623	230.204	155.377	145.972	79.607	169.626
420	159.960	182.440	249.308	163.212	158.148	80.759	183.129
480	171.614	195.707	267.802	170.445	169.384	81.825	196.103
540	182.801	208.424	285.683	177.077	179.678	82.807	208.549
600	193.523	220.591	302.952	183.106	189.032	83.704	220.465
660	203.779	232.207	319.609	188.535	197.445	84.516	231.852
720	213.568	243.273	335.655	193.361	204.917	85.243	242.710

Pollutant Name: Sulfur Dioxide Temperature: 35F Relative Humidity:

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.001	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.001	0.000
20	0.000	0.000	0.001	0.002	0.001	0.001	0.001
30	0.001	0.001	0.001	0.002	0.001	0.001	0.001
40	0.001	0.001	0.001	0.003	0.001	0.001	0.001
50	0.001	0.001	0.001	0.004	0.002	0.001	0.001
60	0.001	0.001	0.002	0.004	0.002	0.001	0.001
120	0.001	0.002	0.002	0.002	0.001	0.001	0.002
180	0.001	0.002	0.002	0.002	0.002	0.001	0.002
240	0.002	0.002	0.002	0.003	0.002	0.001	0.002
300	0.002	0.002	0.002	0.003	0.002	0.001	0.002
360	0.002	0.002	0.003	0.003	0.002	0.001	0.002
420	0.002	0.002	0.003	0.003	0.002	0.001	0.002

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

480	0.002	0.002	0.003	0.003	0.002	0.001	0.002
540	0.002	0.003	0.003	0.004	0.002	0.001	0.003
600	0.002	0.003	0.003	0.004	0.003	0.001	0.003
660	0.002	0.003	0.004	0.004	0.003	0.001	0.003
720	0.002	0.003	0.004	0.004	0.003	0.001	0.003

ALL Pollutant Name: PM10 Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.002	0.001	0.002	0.001	0.015	0.002
10	0.002	0.003	0.002	0.002	0.001	0.014	0.002
20	0.004	0.005	0.003	0.003	0.003	0.011	0.004
30	0.005	0.007	0.004	0.003	0.004	0.008	0.006
40	0.006	0.009	0.005	0.004	0.005	0.006	0.007
50	0.008	0.011	0.006	0.004	0.006	0.005	0.008
60	0.009	0.013	0.007	0.005	0.007	0.004	0.010
120	0.012	0.018	0.011	0.007	0.009	0.010	0.014
180	0.013	0.019	0.011	0.008	0.010	0.016	0.015
240	0.014	0.020	0.012	0.009	0.010	0.021	0.016
300	0.015	0.021	0.013	0.009	0.010	0.026	0.017
360	0.015	0.022	0.013	0.010	0.011	0.029	0.017
420	0.016	0.023	0.014	0.010	0.011	0.033	0.018
480	0.016	0.023	0.014	0.011	0.011	0.035	0.019
540	0.017	0.024	0.014	0.011	0.011	0.037	0.019
600	0.017	0.025	0.015	0.012	0.012	0.039	0.020
660	0.018	0.025	0.015	0.012	0.012	0.040	0.020
720	0.018	0.026	0.015	0.012	0.013	0.040	0.021

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.099	0.112	0.040	0.048	0.028	0.142	0.091

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter							
10	0.183	0.206	0.074	0.088	0.052	0.262	0.168
20	0.312	0.352	0.126	0.150	0.089	0.447	0.287
30	0.400	0.451	0.162	0.193	0.114	0.575	0.368
40	0.433	0.488	0.176	0.209	0.123	0.622	0.399

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
 ALL

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 7: Estimated Travel Fractions

Poll utant Name: ALL Temperature: ALL Rel ati ve Humi di ty:

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.361	0.439	0.111	0.075	0.002	0.012	1.000
%TRIP	0.338	0.406	0.168	0.073	0.000	0.015	1.000
%VEH	0.370	0.448	0.093	0.039	0.000	0.050	1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 8: Evaporati ve Runni ng Loss Emi ssi ons

(grams/mi nute)

Poll utant Name: Reacti ve Org Gases Temperature: 35F Rel ati ve Humi di ty:

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.058	0.941	0.418	0.248	0.169	0.143	0.501
2	0.066	0.504	0.226	0.140	0.089	0.181	0.283
3	0.073	0.362	0.163	0.104	0.064	0.202	0.214
4	0.079	0.293	0.133	0.087	0.053	0.216	0.181
5	0.083	0.253	0.115	0.077	0.046	0.227	0.162
10	0.097	0.181	0.085	0.058	0.036	0.264	0.131
15	0.108	0.167	0.080	0.053	0.035	0.291	0.129
20	0.118	0.170	0.082	0.051	0.038	0.316	0.134
25	0.127	0.179	0.087	0.051	0.042	0.340	0.142
30	0.132	0.188	0.091	0.053	0.044	0.354	0.149
35	0.137	0.196	0.095	0.055	0.045	0.367	0.155
40	0.141	0.204	0.098	0.057	0.047	0.379	0.161
45	0.146	0.212	0.102	0.059	0.049	0.391	0.166
50	0.148	0.218	0.105	0.060	0.051	0.399	0.171
55	0.150	0.225	0.108	0.062	0.052	0.404	0.175
60	0.152	0.231	0.112	0.063	0.054	0.410	0.179

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year : 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 1: Running Exhaust Emissions (grams/mile;
 grams/ide-hour)

Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	6.111	11.679	0.000	0.000	1.543
1	1.450	1.863	1.190	9.116	2.109	6.599	2.237
2	1.450	1.863	1.190	9.116	2.109	6.599	2.237
3	1.388	1.787	1.153	9.116	2.109	6.599	2.177
4	1.274	1.646	1.086	9.116	2.109	6.599	2.066
5	1.172	1.518	1.026	9.116	2.109	6.599	1.967

Pollutant Name: Carbon Monoxide Temperature: 35F Relative Humidity:
 50%

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	36.683	58.886	0.000	0.000	8.426
1	13.564	21.380	12.087	35.954	19.905	50.207	18.957
2	13.564	21.380	12.087	35.954	19.905	50.207	18.957
3	13.258	20.851	11.894	35.954	19.905	50.207	18.592
4	12.683	19.858	11.531	35.954	19.905	50.207	17.909
5	12.152	18.944	11.197	35.954	19.905	50.207	17.278

50% Pollutant Name: Oxides of Nitrogen Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	12.812	86.230	0.000	0.000	7.822
1	1.330	2.376	2.905	34.920	19.006	1.410	4.489
2	1.330	2.376	2.905	34.920	19.006	1.410	4.489
3	1.308	2.336	2.881	34.920	19.006	1.410	4.461
4	1.268	2.260	2.834	34.920	19.006	1.410	4.408
5	1.229	2.189	2.791	34.920	19.006	1.410	4.358

50% Pollutant Name: Carbon Dioxide Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1691.971	5221.400	0.000	0.000	574.777
1	1129.210	1322.778	1788.778	3281.511	2542.116	238.252	1438.039
2	1129.210	1322.778	1788.778	3281.511	2542.116	238.252	1438.039
3	1094.235	1282.340	1752.560	3281.511	2542.116	238.252	1403.627
4	1028.656	1206.516	1684.650	3281.511	2542.116	238.252	1339.102
5	968.452	1136.909	1622.307	3281.511	2542.116	238.252	1279.868

50% Pollutant Name: Sulfur Dioxide Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.050	0.000	0.000	0.006
1	0.011	0.013	0.017	0.032	0.025	0.003	0.014
2	0.011	0.013	0.017	0.032	0.025	0.003	0.014
3	0.011	0.013	0.017	0.032	0.025	0.003	0.014
4	0.010	0.012	0.016	0.032	0.025	0.003	0.013
5	0.010	0.011	0.016	0.032	0.025	0.003	0.013

50% Pollutant Name: PM10 Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

0	0.000	0.000	0.147	1.934	0.000	0.000	0.160
1	0.082	0.124	0.116	2.022	0.445	0.056	0.249
2	0.082	0.124	0.116	2.022	0.445	0.056	0.249
3	0.079	0.119	0.112	2.022	0.445	0.056	0.245
4	0.072	0.109	0.105	2.022	0.445	0.056	0.237
5	0.066	0.101	0.098	2.022	0.445	0.056	0.231

50% Pollutant Name: PM10 - Tire Wear Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.010	0.029	0.010	0.004	0.010
2	0.008	0.008	0.010	0.029	0.010	0.004	0.010
3	0.008	0.008	0.010	0.029	0.010	0.004	0.010
4	0.008	0.008	0.010	0.029	0.010	0.004	0.010
5	0.008	0.008	0.010	0.029	0.010	0.004	0.010

50% Pollutant Name: PM10 - Break Wear Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.024	0.013	0.006	0.013
2	0.013	0.013	0.013	0.024	0.013	0.006	0.013
3	0.013	0.013	0.013	0.024	0.013	0.006	0.013
4	0.013	0.013	0.013	0.024	0.013	0.006	0.013
5	0.013	0.013	0.013	0.024	0.013	0.006	0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	7.664	6.229	4.328	3.191	3.450	26.370	6.869
2	7.664	6.229	4.328	3.191	3.450	26.370	6.869
3	7.908	6.428	4.438	3.191	3.450	26.370	7.073
4	8.412	6.837	4.664	3.191	3.450	26.370	7.491
5	8.933	7.261	4.898	3.191	3.450	26.370	7.925

50% Pollutant Name: Diesel - mi/gal Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.193	29.053	19.528	3.434	3.927	0.000	12.613
2	28.193	29.053	19.528	3.434	3.927	0.000	12.613

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter							
3	28.193	29.053	19.528	3.434	3.927	0.000	12.613
4	28.193	29.053	19.528	3.434	3.927	0.000	12.613
5	28.193	29.053	19.528	3.434	3.927	0.000	12.613

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.450	0.519	0.524	4.632	0.458	3.528	0.838
10	0.710	0.825	0.814	5.395	0.893	3.736	1.157
20	1.196	1.397	1.357	6.895	1.692	4.201	1.761
30	1.636	1.913	1.853	8.359	2.399	4.732	2.316
40	2.030	2.374	2.302	9.787	3.012	5.329	2.825
50	2.378	2.780	2.704	11.180	3.533	5.992	3.285
60	2.662	3.110	3.036	12.150	3.960	6.385	3.647
120	2.649	2.709	2.383	4.959	2.502	3.070	2.801
180	1.398	1.602	1.719	5.327	2.654	2.900	1.841
240	1.480	1.697	1.823	5.689	2.802	3.118	1.954
300	1.561	1.789	1.924	6.046	2.945	3.335	2.065
360	1.640	1.878	2.024	6.398	3.083	3.551	2.174
420	1.717	1.966	2.122	6.745	3.217	3.765	2.280
480	1.791	2.051	2.217	7.087	3.345	3.978	2.384
540	1.864	2.133	2.311	7.423	3.469	4.190	2.485
600	1.935	2.214	2.402	7.755	3.588	4.400	2.584
660	2.004	2.292	2.491	8.082	3.702	4.609	2.681
720	2.070	2.367	2.578	8.403	3.811	4.817	2.775

ALL Pollutant Name: Carbon Monoxide Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	3.216	4.301	5.711	33.081	8.628	6.686	6.286
10	5.840	7.877	10.541	49.642	16.904	8.054	10.657
20	10.793	14.612	19.654	80.838	32.405	10.673	18.899

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

30	15.352	20.793	28.042	109.463	46.504	13.139	26.471
40	19.518	26.418	35.703	135.516	59.201	15.451	33.374
50	23.289	31.489	42.637	158.999	70.496	17.610	39.609
60	26.667	36.005	48.846	179.911	80.389	19.615	45.173
120	31.244	36.631	32.758	55.299	30.549	14.694	35.171
180	17.193	22.792	19.852	64.714	31.442	11.524	23.259
240	18.172	23.966	21.104	73.298	32.365	14.086	24.935
300	19.087	25.078	22.262	81.052	33.317	16.362	26.484
360	19.938	26.128	23.326	87.975	34.299	18.353	27.907
420	20.726	27.116	24.296	94.067	35.310	20.058	29.203
480	21.449	28.041	25.171	99.329	36.350	21.477	30.372
540	22.109	28.904	25.953	103.760	37.420	22.610	31.414
600	22.705	29.705	26.640	107.360	38.519	23.458	32.329
660	23.238	30.444	27.234	110.129	39.648	24.020	33.117
720	23.706	31.121	27.733	112.067	40.806	24.297	33.778

ALL Pollutant Name: Oxides of Nitrogen Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.456	0.582	1.162	1.259	1.346	0.276	0.682
10	0.548	0.704	1.363	1.788	2.028	0.311	0.836
20	0.710	0.921	1.719	2.717	3.226	0.373	1.107
30	0.843	1.099	2.013	3.476	4.201	0.426	1.330
40	0.948	1.239	2.245	4.065	4.956	0.470	1.505
50	1.025	1.340	2.415	4.485	5.488	0.503	1.632
60	1.073	1.404	2.523	4.734	5.799	0.528	1.710
120	1.131	1.498	2.686	4.914	5.999	0.554	1.809
180	1.248	1.631	2.763	4.887	5.977	0.546	1.914
240	1.239	1.619	2.744	4.847	5.943	0.531	1.900
300	1.226	1.602	2.716	4.795	5.898	0.513	1.879
360	1.208	1.580	2.678	4.731	5.841	0.491	1.853
420	1.187	1.552	2.630	4.655	5.772	0.466	1.821
480	1.161	1.520	2.573	4.567	5.692	0.436	1.782
540	1.131	1.481	2.506	4.466	5.600	0.404	1.737
600	1.097	1.438	2.430	4.353	5.497	0.367	1.687
660	1.059	1.390	2.345	4.228	5.381	0.327	1.630
720	1.017	1.336	2.250	4.091	5.255	0.283	1.567

ALL Pollutant Name: Carbon Dioxide Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.855	12.234	17.676	25.204	4.450	25.276	13.821
10	13.823	15.738	21.923	29.931	8.875	27.881	17.345
20	20.001	23.003	30.896	39.226	17.649	32.959	24.647
30	26.501	30.610	40.510	48.308	26.325	37.859	32.288
40	33.323	38.559	50.765	57.176	34.902	42.582	40.266
50	40.467	46.851	61.660	65.832	43.381	47.128	48.583
60	47.933	55.485	73.196	74.275	51.761	51.496	57.238
120	93.801	107.571	148.459	111.989	88.036	71.699	109.644
180	107.614	123.526	170.052	122.223	104.007	73.536	125.210
240	121.001	138.962	191.099	131.856	119.036	75.267	140.284
300	133.962	153.878	211.601	140.887	133.122	76.893	154.865
360	146.496	168.274	231.557	149.317	146.265	78.413	168.954

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

420	158.603	182.150	250.968	157.146	158.465	79.828	182.550
480	170.285	195.507	269.833	164.373	169.723	81.138	195.654
540	181.539	208.344	288.154	170.998	180.038	82.341	208.266
600	192.368	220.661	305.928	177.022	189.411	83.439	220.385
660	202.770	232.458	323.157	182.445	197.841	84.432	232.012
720	212.745	243.736	339.841	187.266	205.328	85.319	243.146

ALL Pollutant Name: Sul fur Di oxide Temperature: 35F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.001	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.001	0.000
20	0.000	0.000	0.001	0.002	0.001	0.001	0.001
30	0.001	0.001	0.001	0.002	0.001	0.001	0.001
40	0.001	0.001	0.001	0.003	0.001	0.001	0.001
50	0.001	0.001	0.001	0.003	0.002	0.001	0.001
60	0.001	0.001	0.002	0.004	0.002	0.001	0.001
120	0.001	0.002	0.002	0.002	0.001	0.001	0.002
180	0.001	0.002	0.002	0.002	0.002	0.001	0.002
240	0.001	0.002	0.002	0.003	0.002	0.001	0.002
300	0.002	0.002	0.002	0.003	0.002	0.001	0.002
360	0.002	0.002	0.003	0.003	0.002	0.001	0.002
420	0.002	0.002	0.003	0.003	0.002	0.001	0.002
480	0.002	0.002	0.003	0.003	0.002	0.001	0.002
540	0.002	0.003	0.003	0.003	0.002	0.001	0.003
600	0.002	0.003	0.003	0.004	0.003	0.001	0.003
660	0.002	0.003	0.004	0.004	0.003	0.001	0.003
720	0.002	0.003	0.004	0.004	0.003	0.001	0.003

ALL Pollutant Name: PM10 Temperature: 35F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.002	0.001	0.002	0.001	0.014	0.002
10	0.002	0.003	0.002	0.002	0.001	0.013	0.002
20	0.004	0.005	0.003	0.003	0.003	0.010	0.004
30	0.005	0.007	0.004	0.003	0.004	0.008	0.006
40	0.006	0.009	0.005	0.004	0.005	0.006	0.007
50	0.008	0.011	0.007	0.004	0.006	0.005	0.009
60	0.009	0.013	0.007	0.005	0.007	0.004	0.010
120	0.013	0.018	0.011	0.007	0.009	0.010	0.014
180	0.013	0.019	0.012	0.008	0.009	0.015	0.015
240	0.014	0.021	0.012	0.008	0.010	0.020	0.016
300	0.015	0.021	0.013	0.009	0.010	0.024	0.017
360	0.015	0.022	0.013	0.009	0.010	0.028	0.018
420	0.016	0.023	0.014	0.010	0.011	0.031	0.018
480	0.016	0.024	0.014	0.010	0.011	0.033	0.019
540	0.017	0.025	0.015	0.011	0.011	0.035	0.019
600	0.017	0.025	0.015	0.011	0.012	0.036	0.020
660	0.018	0.026	0.015	0.012	0.012	0.037	0.020
720	0.018	0.026	0.016	0.012	0.012	0.037	0.021

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.096	0.110	0.037	0.044	0.030	0.123	0.089
10	0.178	0.203	0.068	0.081	0.055	0.227	0.163
20	0.303	0.347	0.116	0.139	0.094	0.388	0.278
30	0.388	0.445	0.150	0.178	0.121	0.499	0.357
40	0.420	0.482	0.162	0.192	0.131	0.540	0.386

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
 ALL

Temp

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Wi nter

35 0.000 0.000 0.000 0.000 0.000 0.000 0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Mul ti -Day Resti ng Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reacti ve Org Gases Temperature: ALL Rel ati ve Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 7: Estimated Travel Fracti ons

Pol l utant Name: Temperature: ALL Rel ati ve Humi di ty:
 ALL

LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter
 %VMT 0.363 0.438 0.110 0.074 0.002 0.012 1.000
 %TRIP 0.337 0.405 0.170 0.072 0.000 0.015 1.000
 %VEH 0.370 0.448 0.093 0.039 0.000 0.050 1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 8: Evaporative Running Loss Emissions
 (grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.053	0.971	0.424	0.264	0.185	0.110	0.513
2	0.060	0.518	0.227	0.147	0.098	0.149	0.286
3	0.066	0.370	0.163	0.109	0.070	0.170	0.214
4	0.072	0.298	0.133	0.090	0.057	0.184	0.180
5	0.076	0.256	0.115	0.079	0.050	0.195	0.161
10	0.089	0.180	0.083	0.058	0.038	0.230	0.127
15	0.098	0.165	0.077	0.052	0.037	0.255	0.124
20	0.107	0.166	0.079	0.050	0.039	0.277	0.128
25	0.116	0.175	0.084	0.050	0.043	0.298	0.135
30	0.120	0.183	0.087	0.052	0.045	0.311	0.141
35	0.125	0.191	0.091	0.054	0.047	0.323	0.147
40	0.129	0.199	0.095	0.056	0.049	0.334	0.153
45	0.132	0.206	0.098	0.057	0.051	0.345	0.158
50	0.135	0.213	0.101	0.059	0.052	0.352	0.162
55	0.137	0.219	0.105	0.060	0.054	0.358	0.166
60	0.138	0.226	0.107	0.062	0.056	0.364	0.170

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : North Coast

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

2	1125.282	1326.219	1803.928	3274.279	2534.676	243.086	1436.941
3	1090.420	1285.643	1767.670	3274.279	2534.676	243.086	1402.487
4	1025.051	1209.559	1699.684	3274.279	2534.676	243.086	1337.882
5	965.042	1139.713	1637.272	3274.279	2534.676	243.086	1278.574

50% Pollutant Name: Sul fur Di oxi de Temperature: 35F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.050	0.000	0.000	0.006
1	0.011	0.013	0.017	0.032	0.025	0.003	0.014
2	0.011	0.013	0.017	0.032	0.025	0.003	0.014
3	0.011	0.013	0.017	0.032	0.025	0.003	0.014
4	0.010	0.012	0.016	0.032	0.025	0.003	0.013
5	0.009	0.011	0.016	0.032	0.025	0.003	0.013

50% Pollutant Name: PM10 Temperature: 35F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.140	1.767	0.000	0.000	0.145
1	0.082	0.125	0.118	1.794	0.434	0.051	0.231
2	0.082	0.125	0.118	1.794	0.434	0.051	0.231
3	0.078	0.120	0.114	1.794	0.434	0.051	0.227
4	0.071	0.110	0.106	1.794	0.434	0.051	0.219
5	0.066	0.102	0.099	1.794	0.434	0.051	0.213

50% Pollutant Name: PM10 - Ti re Wear Temperature: 35F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.010	0.029	0.010	0.004	0.010
2	0.008	0.008	0.010	0.029	0.010	0.004	0.010
3	0.008	0.008	0.010	0.029	0.010	0.004	0.010
4	0.008	0.008	0.010	0.029	0.010	0.004	0.010
5	0.008	0.008	0.010	0.029	0.010	0.004	0.010

50% Pollutant Name: PM10 - Break Wear Temperature: 35F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.024	0.013	0.006	0.013
2	0.013	0.013	0.013	0.024	0.013	0.006	0.013
3	0.013	0.013	0.013	0.024	0.013	0.006	0.013
4	0.013	0.013	0.013	0.024	0.013	0.006	0.013

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter
 5 0.013 0.013 0.013 0.024 0.013 0.006 0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	7.707	6.239	4.327	3.217	3.451	26.472	6.897
2	7.707	6.239	4.327	3.217	3.451	26.472	6.897
3	7.953	6.438	4.436	3.217	3.451	26.472	7.101
4	8.459	6.848	4.660	3.217	3.451	26.472	7.521
5	8.984	7.273	4.893	3.217	3.451	26.472	7.956

50% Pollutant Name: Diesel - mi/gal Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.244	29.050	19.535	3.450	3.948	0.000	12.377
2	28.244	29.050	19.535	3.450	3.948	0.000	12.377
3	28.244	29.050	19.535	3.450	3.948	0.000	12.377
4	28.244	29.050	19.535	3.450	3.948	0.000	12.377
5	28.244	29.050	19.535	3.450	3.948	0.000	12.377

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.392	0.472	0.445	4.165	0.460	3.280	0.745
10	0.632	0.763	0.713	4.903	0.895	3.506	1.046

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

20	1.080	1.305	1.214	6.345	1.697	3.998	1.612
30	1.485	1.794	1.672	7.742	2.406	4.544	2.133
40	1.848	2.230	2.087	9.094	3.021	5.142	2.608
50	2.167	2.613	2.457	10.402	3.543	5.794	3.037
60	2.430	2.927	2.767	11.321	3.972	6.190	3.378
120	2.455	2.580	2.287	4.617	2.509	3.167	2.641
180	1.282	1.513	1.608	4.956	2.662	2.859	1.717
240	1.358	1.602	1.705	5.290	2.811	3.070	1.822
300	1.432	1.689	1.801	5.619	2.954	3.280	1.925
360	1.504	1.773	1.894	5.943	3.093	3.488	2.026
420	1.574	1.856	1.985	6.262	3.227	3.695	2.124
480	1.643	1.936	2.075	6.577	3.356	3.900	2.221
540	1.709	2.014	2.162	6.886	3.480	4.103	2.315
600	1.774	2.089	2.248	7.190	3.599	4.305	2.407
660	1.837	2.163	2.332	7.490	3.713	4.506	2.496
720	1.898	2.234	2.414	7.785	3.823	4.705	2.584

ALL Pollutant Name: Carbon Monoxide Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	2.948	4.057	5.155	30.506	8.532	6.489	5.789
10	5.411	7.481	9.615	46.636	16.716	8.039	9.943
20	10.062	13.931	18.040	76.999	32.045	10.997	17.775
30	14.347	19.853	25.806	104.832	45.987	13.765	24.974
40	18.266	25.246	32.913	130.136	58.543	16.343	31.539
50	21.819	30.111	39.361	152.911	69.712	18.730	37.471
60	25.006	34.447	45.149	173.156	79.495	20.927	42.769
120	29.601	35.368	32.361	52.273	30.209	17.045	33.832
180	16.135	21.809	18.630	60.552	31.093	11.681	21.955
240	17.052	22.930	19.805	68.117	32.005	14.083	23.493
300	17.908	23.991	20.889	74.966	32.947	16.222	24.917
360	18.702	24.991	21.881	81.101	33.918	18.096	26.224
420	19.435	25.930	22.781	86.520	34.917	19.708	27.415
480	20.107	26.809	23.590	91.225	35.946	21.056	28.491
540	20.717	27.627	24.307	95.215	37.004	22.140	29.451
600	21.265	28.384	24.932	98.490	38.091	22.960	30.296
660	21.753	29.081	25.465	101.050	39.207	23.517	31.024
720	22.178	29.717	25.906	102.895	40.352	23.810	31.637

ALL Pollutant Name: Oxides of Nitrogen Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.447	0.574	1.194	1.202	1.352	0.265	0.678
10	0.532	0.690	1.380	1.716	2.037	0.302	0.822
20	0.681	0.894	1.709	2.620	3.240	0.367	1.077
30	0.804	1.062	1.981	3.359	4.220	0.422	1.287
40	0.901	1.194	2.196	3.932	4.978	0.467	1.452
50	0.972	1.290	2.355	4.339	5.512	0.502	1.572
60	1.017	1.351	2.457	4.581	5.824	0.527	1.647
120	1.074	1.443	2.624	4.754	6.025	0.552	1.744
180	1.187	1.573	2.703	4.728	6.003	0.545	1.847
240	1.179	1.562	2.684	4.691	5.969	0.531	1.833
300	1.166	1.546	2.655	4.643	5.924	0.514	1.814

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

360	1.149	1.524	2.617	4.582	5.867	0.493	1.788
420	1.128	1.497	2.569	4.511	5.798	0.468	1.757
480	1.104	1.465	2.512	4.428	5.717	0.441	1.719
540	1.075	1.428	2.445	4.333	5.625	0.410	1.676
600	1.042	1.386	2.368	4.227	5.521	0.375	1.626
660	1.006	1.338	2.281	4.109	5.405	0.337	1.571
720	0.965	1.286	2.185	3.979	5.278	0.295	1.509

Pollutant Name: Carbon Dioxide

Temperature: 35F

Relative Humidity:

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.803	12.239	17.898	22.906	4.447	23.770	13.655
10	13.615	15.627	21.952	27.435	8.867	26.327	17.033
20	19.507	22.686	30.588	36.345	17.635	31.314	24.070
30	25.757	30.118	39.931	45.057	26.304	36.133	31.483
40	32.364	37.925	49.982	53.571	34.875	40.782	39.274
50	39.329	46.106	60.739	61.888	43.347	45.263	47.441
60	46.652	54.662	72.204	70.007	51.721	49.576	55.986
120	92.895	107.323	149.140	106.201	87.967	69.455	108.983
180	106.544	123.221	170.752	116.420	103.925	71.603	124.493
240	119.805	138.630	191.876	126.038	118.942	73.627	139.546
300	132.679	153.549	212.511	135.055	133.016	75.526	154.141
360	145.166	167.979	232.657	143.471	146.149	77.302	168.280
420	157.265	181.920	252.315	151.286	158.340	78.954	181.960
480	168.977	195.371	271.484	158.501	169.589	80.481	195.184
540	180.301	208.333	290.165	165.115	179.896	81.885	207.950
600	191.239	220.806	308.357	171.128	189.261	83.164	220.258
660	201.789	232.789	326.061	176.540	197.684	84.319	232.109
720	211.951	244.282	343.276	181.351	205.166	85.351	243.503

Pollutant Name: Sulfur Dioxide

Temperature: 35F

Relative Humidity:

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.001	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.000	0.000
20	0.000	0.000	0.001	0.002	0.001	0.001	0.001
30	0.001	0.001	0.001	0.002	0.001	0.001	0.001
40	0.001	0.001	0.001	0.003	0.001	0.001	0.001
50	0.001	0.001	0.001	0.003	0.002	0.001	0.001
60	0.001	0.001	0.001	0.004	0.002	0.001	0.001
120	0.001	0.002	0.002	0.002	0.001	0.001	0.002
180	0.001	0.002	0.002	0.002	0.002	0.001	0.002
240	0.001	0.002	0.002	0.002	0.002	0.001	0.002
300	0.002	0.002	0.002	0.003	0.002	0.001	0.002
360	0.002	0.002	0.003	0.003	0.002	0.001	0.002
420	0.002	0.002	0.003	0.003	0.002	0.001	0.002
480	0.002	0.002	0.003	0.003	0.002	0.001	0.002
540	0.002	0.002	0.003	0.003	0.002	0.001	0.003
600	0.002	0.003	0.003	0.003	0.003	0.001	0.003
660	0.002	0.003	0.004	0.003	0.003	0.001	0.003
720	0.002	0.003	0.004	0.004	0.003	0.001	0.003

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

ALL Pollutant Name: PM10 Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.002	0.001	0.002	0.001	0.013	0.001
10	0.002	0.003	0.002	0.002	0.001	0.012	0.002
20	0.003	0.005	0.003	0.003	0.003	0.009	0.004
30	0.005	0.007	0.004	0.003	0.004	0.007	0.006
40	0.006	0.009	0.005	0.004	0.005	0.006	0.007
50	0.007	0.011	0.007	0.004	0.006	0.004	0.009
60	0.009	0.013	0.008	0.005	0.007	0.004	0.010
120	0.013	0.019	0.011	0.007	0.009	0.009	0.014
180	0.013	0.020	0.012	0.007	0.009	0.014	0.015
240	0.014	0.021	0.012	0.008	0.010	0.019	0.016
300	0.015	0.022	0.013	0.009	0.010	0.022	0.017
360	0.015	0.023	0.014	0.009	0.010	0.026	0.018
420	0.016	0.024	0.014	0.010	0.011	0.029	0.019
480	0.017	0.024	0.015	0.010	0.011	0.031	0.019
540	0.017	0.025	0.015	0.010	0.011	0.033	0.020
600	0.017	0.026	0.015	0.011	0.012	0.034	0.020
660	0.018	0.026	0.016	0.011	0.012	0.035	0.021
720	0.018	0.027	0.016	0.011	0.012	0.035	0.021

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.093	0.109	0.035	0.040	0.032	0.108	0.086
10	0.172	0.201	0.064	0.075	0.058	0.200	0.159
20	0.293	0.343	0.109	0.127	0.099	0.342	0.271
30	0.376	0.440	0.141	0.163	0.127	0.440	0.347
40	0.406	0.475	0.152	0.177	0.138	0.477	0.375

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 6a: Parti al Day Resti ng Loss Emi ssi ons

(grams/hour)

ALL Poll utant Name: Reacti ve Org Gases Temperature: ALL Rel ati ve Humi di ty:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 6b: Mul ti -Day Resti ng Loss Emi ssi ons

(grams/hour)

ALL Poll utant Name: Reacti ve Org Gases Temperature: ALL Rel ati ve Humi di ty:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.365	0.437	0.110	0.074	0.002	0.013	1.000
%TRIP	0.337	0.405	0.172	0.071	0.000	0.015	1.000
%VEH	0.369	0.448	0.093	0.038	0.000	0.050	1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.048	0.993	0.428	0.280	0.204	0.084	0.521
2	0.053	0.527	0.228	0.154	0.108	0.123	0.288

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

3	0.060	0.375	0.163	0.113	0.077	0.145	0.214
4	0.065	0.301	0.132	0.093	0.063	0.159	0.179
5	0.068	0.257	0.114	0.081	0.055	0.170	0.158
10	0.080	0.178	0.082	0.058	0.041	0.202	0.123
15	0.089	0.162	0.076	0.052	0.039	0.225	0.118
20	0.097	0.162	0.077	0.049	0.041	0.245	0.121
25	0.105	0.169	0.081	0.049	0.045	0.264	0.128
30	0.109	0.177	0.085	0.051	0.047	0.276	0.134
35	0.112	0.185	0.088	0.053	0.049	0.287	0.139
40	0.116	0.193	0.092	0.054	0.051	0.297	0.145
45	0.119	0.200	0.095	0.056	0.053	0.307	0.150
50	0.122	0.207	0.098	0.058	0.055	0.315	0.154
55	0.123	0.213	0.101	0.059	0.056	0.321	0.158
60	0.125	0.219	0.104	0.060	0.058	0.327	0.161

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 1: Running Exhaust Emissions (grams/mile;

grams/ide-hour)

Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity: 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	6.891	7.287	0.000	0.000	1.153
1	0.071	0.125	0.147	1.560	1.153	5.246	0.264
2	0.071	0.125	0.147	1.560	1.153	5.246	0.264
3	0.067	0.119	0.141	1.560	1.153	5.246	0.259
4	0.060	0.107	0.130	1.560	1.153	5.246	0.251
5	0.055	0.097	0.121	1.560	1.153	5.246	0.243

Pollutant Name: Carbon Monoxide Temperature: 35F Relative Humidity: 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	41.008	49.804	0.000	0.000	7.286
1	1.128	1.745	2.030	4.943	12.352	29.575	2.101
2	1.128	1.745	2.030	4.943	12.352	29.575	2.101
3	1.117	1.727	2.014	4.943	12.352	29.575	2.088

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

4	1.096	1.691	1.983	4.943	12.352	29.575	2.061
5	1.075	1.657	1.953	4.943	12.352	29.575	2.034

50% Pollutant Name: Oxides of Nitrogen Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	8.200	91.905	0.000	0.000	6.855
1	0.133	0.244	0.430	5.067	6.859	1.538	0.565
2	0.133	0.244	0.430	5.067	6.859	1.538	0.565
3	0.131	0.240	0.427	5.067	6.859	1.538	0.562
4	0.127	0.233	0.420	5.067	6.859	1.538	0.556
5	0.124	0.226	0.414	5.067	6.859	1.538	0.551

50% Pollutant Name: Carbon Dioxide Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1661.372	5053.694	0.000	0.000	495.161
1	1100.821	1384.278	1908.566	3105.516	2396.296	266.377	1431.032
2	1100.821	1384.278	1908.566	3105.516	2396.296	266.377	1431.032
3	1066.633	1341.327	1871.185	3105.516	2396.296	266.377	1395.320
4	1002.528	1260.790	1801.091	3105.516	2396.296	266.377	1328.356
5	943.678	1186.856	1736.744	3105.516	2396.296	266.377	1266.883

50% Pollutant Name: Sulfur Dioxide Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.048	0.000	0.000	0.005
1	0.011	0.013	0.018	0.030	0.023	0.003	0.014
2	0.011	0.013	0.018	0.030	0.023	0.003	0.014
3	0.010	0.013	0.018	0.030	0.023	0.003	0.013
4	0.010	0.012	0.017	0.030	0.023	0.003	0.013
5	0.009	0.011	0.017	0.030	0.023	0.003	0.012

50% Pollutant Name: PM10 Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.083	0.304	0.000	0.000	0.028
1	0.069	0.112	0.127	0.142	0.209	0.030	0.098
2	0.069	0.112	0.127	0.142	0.209	0.030	0.098
3	0.066	0.106	0.122	0.142	0.209	0.030	0.094
4	0.060	0.097	0.112	0.142	0.209	0.030	0.087
5	0.055	0.088	0.104	0.142	0.209	0.030	0.080

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

50% Pollutant Name: PM10 - Tire Wear Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.027	0.010	0.004	0.009
2	0.008	0.008	0.009	0.027	0.010	0.004	0.009
3	0.008	0.008	0.009	0.027	0.010	0.004	0.009
4	0.008	0.008	0.009	0.027	0.010	0.004	0.009
5	0.008	0.008	0.009	0.027	0.010	0.004	0.009

50% Pollutant Name: PM10 - Break Wear Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.023	0.013	0.006	0.013
2	0.013	0.013	0.013	0.023	0.013	0.006	0.013
3	0.013	0.013	0.013	0.023	0.013	0.006	0.013
4	0.013	0.013	0.013	0.023	0.013	0.006	0.013
5	0.013	0.013	0.013	0.023	0.013	0.006	0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	8.034	6.367	4.345	3.508	3.477	26.984	7.085
2	8.034	6.367	4.345	3.508	3.477	26.984	7.085
3	8.291	6.571	4.451	3.508	3.477	26.984	7.297
4	8.821	6.991	4.670	3.508	3.477	26.984	7.732
5	9.370	7.426	4.898	3.508	3.477	26.984	8.184

50% Pollutant Name: Diesel - mi/gal Temperature: 35F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.449	3.765	4.429	0.000	6.692
2	29.156	29.156	19.449	3.765	4.429	0.000	6.692
3	29.156	29.156	19.449	3.765	4.429	0.000	6.692
4	29.156	29.156	19.449	3.765	4.429	0.000	6.692
5	29.156	29.156	19.449	3.765	4.429	0.000	6.692

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.014	0.027	0.067	0.105	0.432	1.733	0.061
10	0.027	0.053	0.132	0.204	0.841	2.075	0.099
20	0.052	0.103	0.261	0.387	1.595	2.737	0.173
30	0.075	0.149	0.385	0.548	2.261	3.373	0.242
40	0.097	0.191	0.505	0.688	2.840	3.981	0.307
50	0.117	0.230	0.621	0.807	3.330	4.562	0.367
60	0.135	0.265	0.733	0.905	3.733	4.976	0.421
120	0.205	0.376	1.264	0.572	2.358	4.018	0.552
180	0.088	0.168	0.696	0.607	2.502	2.718	0.306
240	0.094	0.178	0.741	0.640	2.642	2.893	0.325
300	0.099	0.189	0.786	0.673	2.777	3.064	0.344
360	0.104	0.199	0.831	0.705	2.907	3.232	0.363
420	0.110	0.209	0.875	0.735	3.033	3.397	0.381
480	0.115	0.218	0.920	0.765	3.154	3.559	0.400
540	0.120	0.228	0.964	0.793	3.270	3.718	0.418
600	0.125	0.238	1.009	0.820	3.382	3.873	0.436
660	0.130	0.247	1.053	0.846	3.490	4.025	0.453
720	0.135	0.256	1.097	0.871	3.593	4.173	0.471

ALL Pollutant Name: Carbon Monoxide Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.248	0.448	1.518	2.746	6.707	5.171	0.796
10	0.490	0.885	3.004	5.381	13.142	7.920	1.536
20	0.955	1.722	5.885	10.316	25.193	13.094	2.952
30	1.397	2.511	8.643	14.804	36.155	17.837	4.283
40	1.814	3.252	11.277	18.847	46.027	22.148	5.529
50	2.208	3.946	13.787	22.442	54.808	26.028	6.691
60	2.578	4.591	16.175	25.592	62.499	29.476	7.768
120	4.023	6.782	25.979	9.725	23.750	34.494	10.035
180	1.882	3.257	8.726	10.009	24.444	13.100	4.387
240	2.041	3.512	9.538	10.303	25.161	14.459	4.733

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

300	2.182	3.739	10.249	10.606	25.901	15.700	5.041
360	2.304	3.938	10.859	10.918	26.664	16.824	5.312
420	2.408	4.109	11.369	11.240	27.450	17.830	5.545
480	2.493	4.251	11.778	11.571	28.259	18.718	5.741
540	2.559	4.365	12.087	11.912	29.090	19.489	5.900
600	2.606	4.451	12.295	12.262	29.945	20.142	6.021
660	2.635	4.509	12.402	12.621	30.822	20.677	6.104
720	2.646	4.539	12.409	12.989	31.722	21.095	6.150

ALL Pollutant Name: Oxides of Nitrogen Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.062	0.121	1.025	0.262	1.256	0.195	0.280
10	0.066	0.130	1.053	0.394	1.893	0.244	0.299
20	0.073	0.145	1.105	0.627	3.011	0.331	0.333
30	0.078	0.158	1.152	0.816	3.923	0.403	0.362
40	0.083	0.168	1.194	0.963	4.627	0.459	0.386
50	0.087	0.177	1.232	1.066	5.124	0.501	0.404
60	0.090	0.183	1.265	1.127	5.414	0.527	0.418
120	0.098	0.199	1.401	1.166	5.600	0.541	0.455
180	0.110	0.223	1.447	1.161	5.580	0.544	0.477
240	0.109	0.221	1.435	1.155	5.548	0.536	0.474
300	0.108	0.219	1.416	1.146	5.506	0.525	0.468
360	0.106	0.215	1.389	1.135	5.453	0.512	0.460
420	0.103	0.210	1.353	1.122	5.389	0.496	0.449
480	0.101	0.204	1.310	1.106	5.314	0.479	0.437
540	0.097	0.198	1.260	1.088	5.228	0.459	0.422
600	0.093	0.190	1.201	1.068	5.132	0.436	0.405
660	0.089	0.181	1.135	1.046	5.024	0.412	0.386
720	0.084	0.171	1.060	1.021	4.906	0.385	0.364

ALL Pollutant Name: Carbon Dioxide Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.260	15.236	22.138	2.663	4.842	13.082	14.703
10	13.738	17.144	24.812	5.311	9.658	15.272	16.660
20	17.197	21.581	31.071	10.564	19.209	19.573	21.157
30	21.328	26.846	38.543	15.758	28.652	23.768	26.432
40	26.130	32.941	47.227	20.892	37.989	27.857	32.485
50	31.605	39.864	57.124	25.968	47.218	31.840	39.316
60	37.752	47.615	68.233	30.985	56.340	35.716	46.924
120	88.189	110.625	159.337	52.700	95.824	53.118	107.671
180	100.075	125.610	180.819	62.261	113.209	57.390	122.324
240	111.948	140.563	202.277	71.257	129.568	61.412	136.917
300	123.809	155.482	223.710	79.690	144.901	65.183	151.448
360	135.657	170.368	245.119	87.558	159.208	68.703	165.917
420	147.492	185.221	266.502	94.862	172.488	71.972	180.326
480	159.314	200.041	287.861	101.601	184.743	74.991	194.673
540	171.124	214.828	309.195	107.776	195.971	77.759	208.959
600	182.920	229.581	330.505	113.387	206.173	80.276	223.183
660	194.704	244.302	351.790	118.433	215.349	82.542	237.346
720	206.475	258.989	373.050	122.916	223.499	84.557	251.448

Vehi cle Queui ng Emi ssi ons_North Coast Basin_2008-10_2033-34_PM10_ROG_Wi nter

ALL Pol l utant Name: Sul fur Di oxi de Temperature: 35F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.001	0.000	0.000
30	0.000	0.000	0.001	0.000	0.001	0.001	0.000
40	0.000	0.000	0.001	0.001	0.001	0.001	0.000
50	0.000	0.000	0.001	0.001	0.001	0.001	0.000
60	0.000	0.001	0.001	0.001	0.002	0.001	0.001
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.002	0.001	0.001
240	0.001	0.001	0.002	0.001	0.002	0.001	0.001
300	0.001	0.002	0.002	0.001	0.002	0.001	0.002
360	0.001	0.002	0.003	0.001	0.002	0.001	0.002
420	0.001	0.002	0.003	0.001	0.002	0.001	0.002
480	0.002	0.002	0.003	0.001	0.002	0.001	0.002
540	0.002	0.002	0.003	0.001	0.002	0.001	0.002
600	0.002	0.002	0.003	0.001	0.003	0.001	0.002
660	0.002	0.002	0.004	0.001	0.003	0.001	0.002
720	0.002	0.003	0.004	0.001	0.003	0.001	0.003

ALL Pol l utant Name: PM10 Temperature: 35F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.000	0.001	0.007	0.001
10	0.001	0.002	0.001	0.001	0.002	0.006	0.001
20	0.002	0.003	0.003	0.001	0.003	0.005	0.003
30	0.003	0.005	0.004	0.002	0.004	0.004	0.004
40	0.004	0.006	0.006	0.002	0.005	0.003	0.005
50	0.005	0.008	0.007	0.003	0.006	0.003	0.006
60	0.006	0.009	0.008	0.003	0.007	0.003	0.007
120	0.009	0.015	0.013	0.004	0.010	0.006	0.012
180	0.010	0.016	0.015	0.004	0.010	0.008	0.013
240	0.011	0.018	0.016	0.004	0.011	0.010	0.014
300	0.012	0.019	0.017	0.005	0.011	0.012	0.015
360	0.013	0.020	0.018	0.005	0.011	0.014	0.016
420	0.013	0.021	0.019	0.005	0.012	0.015	0.017
480	0.014	0.022	0.020	0.005	0.012	0.017	0.018
540	0.014	0.023	0.020	0.005	0.012	0.018	0.018
600	0.014	0.023	0.021	0.005	0.013	0.018	0.018
660	0.014	0.023	0.021	0.005	0.013	0.019	0.019
720	0.015	0.023	0.021	0.006	0.013	0.019	0.019

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : North Coast

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.018	0.038	0.022	0.003	0.025	0.063	0.026
10	0.032	0.070	0.041	0.006	0.046	0.116	0.049
20	0.055	0.119	0.070	0.010	0.078	0.199	0.083
30	0.070	0.152	0.089	0.012	0.100	0.257	0.106
40	0.076	0.165	0.096	0.013	0.107	0.279	0.114

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : North Coast

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5a: Partial Day Diurnal Loss Emissions (grams/hour)

ALL Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

ALL	Pollutant Name: Reactive Org Gases	Temperature: ALL					Relative Humidity:	
Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

ALL	Pollutant Name:		Temperature: ALL					Relative Humidity:
	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
%VMT	0.375	0.448	0.098	0.066	0.002	0.012	1.000	
%TRIP	0.336	0.400	0.186	0.062	0.000	0.015	1.000	
%VEH	0.368	0.448	0.095	0.036	0.000	0.052	1.000	

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 8: Evaporative Running Loss Emissions

(grams/minute)

ALL Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.005	0.317	0.321	0.074	0.523	0.003	0.181
2	0.005	0.165	0.167	0.039	0.269	0.037	0.096
3	0.007	0.116	0.118	0.027	0.186	0.056	0.069
4	0.008	0.094	0.096	0.021	0.146	0.068	0.057
5	0.010	0.080	0.082	0.018	0.122	0.076	0.050
10	0.013	0.056	0.058	0.012	0.077	0.099	0.038
15	0.015	0.050	0.054	0.011	0.066	0.112	0.036
20	0.016	0.050	0.055	0.011	0.063	0.123	0.036
25	0.017	0.051	0.057	0.011	0.065	0.133	0.037
30	0.018	0.053	0.060	0.011	0.068	0.140	0.039
35	0.019	0.056	0.063	0.012	0.071	0.147	0.041
40	0.020	0.058	0.065	0.012	0.074	0.153	0.042
45	0.020	0.060	0.067	0.013	0.077	0.160	0.044
50	0.021	0.062	0.070	0.013	0.080	0.166	0.045
55	0.022	0.064	0.072	0.014	0.083	0.171	0.047
60	0.022	0.066	0.074	0.014	0.086	0.177	0.048

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Tabl e 1: Runni ng Exhaust Emi ssi ons (grams/mi l e;
grams/i dl e-hour)

Pol l utant Name: Reacti ve Org Gases Temperature: 35F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	6.908	7.271	0.000	0.000	1.150
1	0.065	0.113	0.141	1.538	1.129	5.245	0.254
2	0.065	0.113	0.141	1.538	1.129	5.245	0.254
3	0.062	0.107	0.135	1.538	1.129	5.245	0.249
4	0.056	0.096	0.124	1.538	1.129	5.245	0.241
5	0.051	0.087	0.115	1.538	1.129	5.245	0.234

Pol l utant Name: Carbon Monoxi de Temperature: 35F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	41.073	49.733	0.000	0.000	7.261
1	1.087	1.623	1.983	4.879	12.196	29.565	2.020
2	1.087	1.623	1.983	4.879	12.196	29.565	2.020
3	1.076	1.606	1.968	4.879	12.196	29.565	2.007
4	1.056	1.574	1.937	4.879	12.196	29.565	1.982
5	1.036	1.543	1.908	4.879	12.196	29.565	1.958

Pol l utant Name: Oxi des of Ni trogen Temperature: 35F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	8.158	91.720	0.000	0.000	6.798
1	0.127	0.220	0.406	4.973	6.370	1.538	0.540
2	0.127	0.220	0.406	4.973	6.370	1.538	0.540
3	0.125	0.217	0.402	4.973	6.370	1.538	0.538
4	0.121	0.211	0.396	4.973	6.370	1.538	0.533
5	0.118	0.204	0.390	4.973	6.370	1.538	0.528

Pol l utant Name: Carbon Di oxi de Temperature: 35F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1661.141	5045.388	0.000	0.000	492.195
1	1100.698	1385.090	1909.726	3099.438	2390.352	266.391	1430.294
2	1100.698	1385.090	1909.726	3099.438	2390.352	266.391	1430.294
3	1066.513	1342.107	1872.334	3099.438	2390.352	266.391	1394.547
4	1002.414	1261.511	1802.220	3099.438	2390.352	266.391	1327.517
5	943.571	1187.523	1737.855	3099.438	2390.352	266.391	1265.983

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter
 Pollutant Name: Sul fur Di oxide Temperature: 35F Relative Humidity:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.048	0.000	0.000	0.005
1	0.011	0.013	0.018	0.030	0.023	0.003	0.014
2	0.011	0.013	0.018	0.030	0.023	0.003	0.014
3	0.010	0.013	0.018	0.030	0.023	0.003	0.013
4	0.010	0.012	0.017	0.030	0.023	0.003	0.013
5	0.009	0.011	0.017	0.030	0.023	0.003	0.012

Pollutant Name: PM10 Temperature: 35F Relative Humidity:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.082	0.298	0.000	0.000	0.028
1	0.069	0.111	0.127	0.140	0.199	0.030	0.098
2	0.069	0.111	0.127	0.140	0.199	0.030	0.098
3	0.066	0.106	0.122	0.140	0.199	0.030	0.094
4	0.060	0.096	0.112	0.140	0.199	0.030	0.086
5	0.055	0.088	0.103	0.140	0.199	0.030	0.080

Pollutant Name: PM10 - Tire Wear Temperature: 35F Relative Humidity:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.027	0.010	0.004	0.009
2	0.008	0.008	0.009	0.027	0.010	0.004	0.009
3	0.008	0.008	0.009	0.027	0.010	0.004	0.009
4	0.008	0.008	0.009	0.027	0.010	0.004	0.009
5	0.008	0.008	0.009	0.027	0.010	0.004	0.009

Pollutant Name: PM10 - Break Wear Temperature: 35F Relative Humidity:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.022	0.013	0.006	0.013
2	0.013	0.013	0.013	0.022	0.013	0.006	0.013
3	0.013	0.013	0.013	0.022	0.013	0.006	0.013
4	0.013	0.013	0.013	0.022	0.013	0.006	0.013
5	0.013	0.013	0.013	0.022	0.013	0.006	0.013

Pollutant Name: Gasoline - mi/gal Temperature: 35F Relative Humidity:

50%

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	8.035	6.368	4.345	3.509	3.477	26.985	7.085
2	8.035	6.368	4.345	3.509	3.477	26.985	7.085
3	8.293	6.572	4.451	3.509	3.477	26.985	7.296
4	8.822	6.991	4.670	3.509	3.477	26.985	7.732
5	9.372	7.427	4.898	3.509	3.477	26.985	8.184

Pollutant Name: Diesel - mi/gal Temperature: 35F Relative Humidity: 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.446	3.775	4.457	0.000	6.614
2	29.156	29.156	19.446	3.775	4.457	0.000	6.614
3	29.156	29.156	19.446	3.775	4.457	0.000	6.614
4	29.156	29.156	19.446	3.775	4.457	0.000	6.614
5	29.156	29.156	19.446	3.775	4.457	0.000	6.614

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 2: Starting Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.012	0.023	0.065	0.100	0.435	1.731	0.058
10	0.023	0.046	0.129	0.195	0.848	2.072	0.094
20	0.045	0.089	0.255	0.370	1.609	2.735	0.163
30	0.066	0.129	0.377	0.525	2.280	3.371	0.228
40	0.085	0.166	0.495	0.659	2.864	3.979	0.289
50	0.103	0.200	0.610	0.773	3.358	4.560	0.346
60	0.120	0.231	0.720	0.866	3.765	4.974	0.397
120	0.187	0.341	1.253	0.547	2.378	4.021	0.528
180	0.080	0.151	0.689	0.580	2.523	2.718	0.293

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

240	0.085	0.160	0.733	0.613	2.664	2.893	0.312
300	0.090	0.169	0.778	0.644	2.800	3.064	0.330
360	0.095	0.178	0.822	0.674	2.931	3.232	0.348
420	0.100	0.187	0.866	0.704	3.058	3.397	0.366
480	0.105	0.196	0.910	0.732	3.180	3.559	0.383
540	0.109	0.205	0.955	0.759	3.298	3.717	0.401
600	0.114	0.214	0.999	0.785	3.411	3.872	0.418
660	0.119	0.222	1.043	0.810	3.519	4.024	0.435
720	0.123	0.231	1.086	0.833	3.623	4.173	0.452

ALL Pollutant Name: Carbon Monoxide Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.230	0.402	1.505	2.650	6.726	5.169	0.763
10	0.454	0.795	2.979	5.193	13.179	7.920	1.471
20	0.887	1.548	5.838	9.955	25.265	13.099	2.826
30	1.298	2.261	8.575	14.286	36.257	17.845	4.103
40	1.688	2.933	11.191	18.187	46.157	22.160	5.299
50	2.056	3.563	13.687	21.656	54.963	26.043	6.416
60	2.403	4.153	16.061	24.696	62.676	29.494	7.453
120	3.797	6.283	25.943	9.384	23.817	34.533	9.731
180	1.771	2.987	8.669	9.659	24.513	13.104	4.208
240	1.925	3.230	9.480	9.942	25.232	14.461	4.547
300	2.060	3.446	10.190	10.235	25.975	15.700	4.848
360	2.178	3.634	10.799	10.536	26.740	16.823	5.112
420	2.277	3.794	11.308	10.846	27.528	17.828	5.338
480	2.357	3.927	11.715	11.166	28.339	18.715	5.528
540	2.420	4.032	12.022	11.495	29.173	19.485	5.680
600	2.464	4.109	12.228	11.832	30.030	20.138	5.795
660	2.490	4.158	12.333	12.179	30.909	20.673	5.873
720	2.497	4.180	12.337	12.535	31.812	21.091	5.914

ALL Pollutant Name: Oxides of Nitrogen Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.058	0.113	1.019	0.248	1.267	0.195	0.273
10	0.062	0.120	1.045	0.374	1.909	0.244	0.291
20	0.067	0.132	1.094	0.595	3.036	0.331	0.322
30	0.072	0.143	1.139	0.775	3.954	0.403	0.348
40	0.076	0.152	1.179	0.914	4.664	0.459	0.371
50	0.079	0.159	1.216	1.013	5.165	0.501	0.388
60	0.082	0.164	1.248	1.070	5.458	0.527	0.401
120	0.089	0.179	1.383	1.107	5.646	0.541	0.437
180	0.101	0.201	1.428	1.103	5.625	0.544	0.458
240	0.100	0.199	1.417	1.097	5.594	0.536	0.455
300	0.099	0.197	1.398	1.088	5.551	0.525	0.449
360	0.097	0.193	1.370	1.078	5.497	0.512	0.441
420	0.095	0.189	1.336	1.065	5.433	0.496	0.431
480	0.092	0.184	1.293	1.050	5.357	0.479	0.419
540	0.089	0.177	1.243	1.033	5.271	0.459	0.404
600	0.085	0.170	1.184	1.014	5.173	0.437	0.388
660	0.081	0.162	1.118	0.993	5.065	0.412	0.369
720	0.076	0.153	1.045	0.970	4.946	0.385	0.348

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM10_ROG_Wi nter

ALL Poll utant Name: Carbon Di oxi de Temperature: 35F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.281	15.308	22.195	2.665	4.879	13.059	14.753
10	13.750	17.196	24.861	5.315	9.731	15.249	16.697
20	17.193	21.598	31.104	10.571	19.354	19.548	21.172
30	21.310	26.834	38.565	15.768	28.868	23.742	26.430
40	26.101	32.906	47.243	20.906	38.275	27.829	32.469
50	31.566	39.813	57.138	25.985	47.574	31.811	39.291
60	37.705	47.556	68.251	31.006	56.765	35.686	46.895
120	88.176	110.730	159.516	52.735	96.547	53.082	107.762
180	100.048	125.699	181.005	62.303	114.063	57.359	122.408
240	111.910	140.642	202.474	71.305	130.546	61.385	136.998
300	123.763	155.559	223.922	79.743	145.994	65.159	151.531
360	135.605	170.450	245.349	87.617	160.409	68.683	166.006
420	147.437	185.314	266.755	94.926	173.789	71.955	180.425
480	159.259	200.152	288.140	101.670	186.136	74.977	194.787
540	171.071	214.964	309.505	107.849	197.449	77.747	209.093
600	182.873	229.749	330.848	113.463	207.729	80.267	223.341
660	194.665	244.508	352.171	118.513	216.974	82.535	237.533
720	206.447	259.241	373.473	122.999	225.186	84.552	251.667

ALL Poll utant Name: Sul fur Di oxi de Temperature: 35F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.001	0.000	0.000
30	0.000	0.000	0.001	0.000	0.001	0.001	0.000
40	0.000	0.000	0.001	0.000	0.001	0.001	0.000
50	0.000	0.000	0.001	0.001	0.001	0.001	0.000
60	0.000	0.001	0.001	0.001	0.002	0.001	0.001
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.002	0.001	0.001
240	0.001	0.001	0.002	0.001	0.002	0.001	0.001
300	0.001	0.002	0.002	0.001	0.002	0.001	0.002
360	0.001	0.002	0.003	0.001	0.002	0.001	0.002
420	0.001	0.002	0.003	0.001	0.002	0.001	0.002
480	0.002	0.002	0.003	0.001	0.002	0.001	0.002
540	0.002	0.002	0.003	0.001	0.002	0.001	0.002
600	0.002	0.002	0.003	0.001	0.003	0.001	0.002
660	0.002	0.002	0.004	0.001	0.003	0.001	0.002
720	0.002	0.003	0.004	0.001	0.003	0.001	0.003

ALL Poll utant Name: PM10 Temperature: 35F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter

5	0.001	0.001	0.001	0.000	0.001	0.007	0.001
10	0.001	0.002	0.001	0.001	0.002	0.006	0.001
20	0.002	0.003	0.003	0.001	0.003	0.005	0.003
30	0.003	0.005	0.004	0.002	0.004	0.004	0.004
40	0.004	0.006	0.005	0.002	0.005	0.003	0.005
50	0.005	0.008	0.007	0.003	0.006	0.003	0.006
60	0.006	0.009	0.008	0.003	0.007	0.003	0.007
120	0.009	0.015	0.013	0.004	0.010	0.006	0.012
180	0.010	0.016	0.015	0.004	0.010	0.008	0.013
240	0.011	0.018	0.016	0.004	0.011	0.010	0.014
300	0.012	0.019	0.017	0.005	0.011	0.012	0.015
360	0.013	0.020	0.018	0.005	0.011	0.014	0.016
420	0.013	0.021	0.019	0.005	0.012	0.015	0.017
480	0.014	0.022	0.020	0.005	0.012	0.017	0.018
540	0.014	0.022	0.020	0.005	0.012	0.018	0.018
600	0.014	0.023	0.021	0.005	0.013	0.018	0.018
660	0.014	0.023	0.021	0.005	0.013	0.019	0.019
720	0.014	0.023	0.021	0.006	0.014	0.019	0.019

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.016	0.035	0.022	0.003	0.025	0.063	0.024
10	0.029	0.064	0.040	0.005	0.046	0.116	0.045
20	0.050	0.109	0.069	0.009	0.078	0.199	0.077
30	0.064	0.139	0.088	0.012	0.100	0.257	0.098
40	0.069	0.150	0.095	0.013	0.107	0.278	0.106

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter
 Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

ALL Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

ALL Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.375	0.449	0.098	0.065	0.002	0.012	1.000
%TRIP	0.336	0.401	0.186	0.062	0.000	0.015	1.000
%VEH	0.368	0.448	0.095	0.036	0.000	0.052	1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:40:14
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 35F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.005	0.283	0.315	0.067	0.541	0.003	0.165
2	0.005	0.147	0.164	0.034	0.279	0.037	0.087
3	0.007	0.104	0.116	0.024	0.193	0.056	0.063
4	0.008	0.084	0.094	0.019	0.151	0.068	0.052
5	0.009	0.073	0.081	0.016	0.126	0.076	0.046
10	0.013	0.051	0.057	0.011	0.079	0.099	0.036
15	0.015	0.047	0.053	0.010	0.068	0.112	0.034
20	0.016	0.046	0.054	0.010	0.065	0.123	0.034
25	0.017	0.048	0.057	0.010	0.066	0.132	0.036

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM10_ROG_Winter							
30	0.018	0.050	0.059	0.011	0.070	0.140	0.037
35	0.018	0.052	0.062	0.011	0.073	0.147	0.039
40	0.019	0.054	0.064	0.012	0.076	0.153	0.041
45	0.020	0.056	0.067	0.012	0.079	0.159	0.042
50	0.020	0.058	0.069	0.012	0.082	0.166	0.043
55	0.021	0.060	0.071	0.013	0.085	0.171	0.045
60	0.022	0.062	0.073	0.013	0.088	0.177	0.046

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer
 Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 1: Running Exhaust Emissions (grams/mile;
 grams/minute-hour)

Pollutant Name: Methane Temperature: 90F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.250	0.499	0.000	0.000	0.065
1	0.156	0.166	0.121	0.451	0.131	0.307	0.181
2	0.156	0.166	0.121	0.451	0.131	0.307	0.181
3	0.152	0.162	0.119	0.451	0.131	0.307	0.177
4	0.145	0.155	0.115	0.451	0.131	0.307	0.171
5	0.138	0.148	0.111	0.451	0.131	0.307	0.165

Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	35.523	36.624	0.000	0.000	6.699
1	17.109	24.518	14.086	36.654	22.090	40.231	21.787
2	17.109	24.518	14.086	36.654	22.090	40.231	21.787
3	16.755	23.959	13.881	36.654	22.090	40.231	21.392
4	16.085	22.908	13.495	36.654	22.090	40.231	20.646
5	15.465	21.936	13.137	36.654	22.090	40.231	19.955

Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	13.496	91.396	0.000	0.000	8.369
1	0.804	1.398	2.082	29.429	15.171	0.735	3.381
2	0.804	1.398	2.082	29.429	15.171	0.735	3.381
3	0.791	1.375	2.068	29.429	15.171	0.735	3.365
4	0.766	1.331	2.041	29.429	15.171	0.735	3.334
5	0.743	1.290	2.016	29.429	15.171	0.735	3.305

Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1683.326	5871.566	0.000	0.000	628.311
1	1390.913	1591.491	2043.907	3289.385	2548.753	232.525	1681.837
2	1390.913	1591.491	2043.907	3289.385	2548.753	232.525	1681.837
3	1353.108	1548.329	2004.731	3289.385	2548.753	232.525	1644.900
4	1282.220	1467.398	1931.274	3289.385	2548.753	232.525	1575.639
5	1217.144	1393.101	1863.840	3289.385	2548.753	232.525	1512.057

Pol l utant Name: Sul fur Di oxi de Temperature: 90F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.056	0.000	0.000	0.006
1	0.014	0.016	0.020	0.032	0.025	0.003	0.016
2	0.014	0.016	0.020	0.032	0.025	0.003	0.016
3	0.013	0.015	0.019	0.032	0.025	0.003	0.016
4	0.013	0.014	0.019	0.032	0.025	0.003	0.015
5	0.012	0.014	0.018	0.032	0.025	0.003	0.015

Pol l utant Name: PM2. 5 Temperature: 90F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.145	1.416	0.000	0.000	0.123
1	0.076	0.113	0.105	2.071	0.419	0.046	0.246
2	0.076	0.113	0.105	2.071	0.419	0.046	0.246
3	0.073	0.108	0.102	2.071	0.419	0.046	0.242
4	0.067	0.100	0.095	2.071	0.419	0.046	0.235
5	0.061	0.092	0.089	2.071	0.419	0.046	0.229

Pol l utant Name: PM2. 5 - Ti re Wear Temperature: 90F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.002	0.002	0.007	0.002	0.001	0.002
2	0.002	0.002	0.002	0.007	0.002	0.001	0.002
3	0.002	0.002	0.002	0.007	0.002	0.001	0.002
4	0.002	0.002	0.002	0.007	0.002	0.001	0.002
5	0.002	0.002	0.002	0.007	0.002	0.001	0.002

Pol l utant Name: PM2. 5 - Break Wear Temperature: 90F Rel ati ve Humi di ty:
50%

Speed

Vehicle Queuing MPH	Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer						
	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.005	0.005	0.005	0.010	0.005	0.003	0.006
2	0.005	0.005	0.005	0.010	0.005	0.003	0.006
3	0.005	0.005	0.005	0.010	0.005	0.003	0.006
4	0.005	0.005	0.005	0.010	0.005	0.003	0.006
5	0.005	0.005	0.005	0.010	0.005	0.003	0.006

50% Pollutant Name: Gasoline - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.196	5.147	3.672	3.161	3.439	28.394	5.725
2	6.196	5.147	3.672	3.161	3.439	28.394	5.725
3	6.369	5.292	3.750	3.161	3.439	28.394	5.871
4	6.720	5.587	3.910	3.161	3.439	28.394	6.168
5	7.079	5.889	4.073	3.161	3.439	28.394	6.471

50% Pollutant Name: Diesel - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.128	29.050	19.516	3.417	3.908	0.000	12.829
2	28.128	29.050	19.516	3.417	3.908	0.000	12.829
3	28.128	29.050	19.516	3.417	3.908	0.000	12.829
4	28.128	29.050	19.516	3.417	3.908	0.000	12.829
5	28.128	29.050	19.516	3.417	3.908	0.000	12.829

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

Pollutant Name: Methane Temperature: 90F Relative Humidity:

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.010	0.011	0.013	0.111	0.012	0.084	0.019
10	0.015	0.016	0.020	0.124	0.024	0.087	0.025
20	0.024	0.027	0.032	0.150	0.045	0.093	0.037
30	0.033	0.036	0.042	0.176	0.064	0.101	0.047
40	0.041	0.044	0.052	0.203	0.080	0.111	0.057
50	0.048	0.052	0.061	0.231	0.094	0.124	0.066
60	0.053	0.058	0.069	0.249	0.105	0.131	0.073
120	0.070	0.078	0.090	0.293	0.127	0.152	0.094
180	0.076	0.085	0.096	0.315	0.134	0.165	0.102
240	0.080	0.090	0.102	0.337	0.142	0.177	0.108
300	0.085	0.095	0.108	0.358	0.149	0.190	0.114
360	0.089	0.099	0.113	0.379	0.156	0.202	0.120
420	0.093	0.104	0.119	0.400	0.163	0.214	0.126
480	0.097	0.108	0.124	0.420	0.169	0.227	0.132
540	0.101	0.113	0.129	0.440	0.175	0.239	0.137
600	0.105	0.117	0.134	0.460	0.182	0.251	0.143
660	0.109	0.121	0.139	0.480	0.187	0.263	0.148
720	0.112	0.125	0.144	0.499	0.193	0.275	0.154

Poll utant Name: Carbon Monoxi de Temperature: 90F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	1.326	1.606	2.158	21.255	2.419	5.882	3.105
10	1.981	2.447	3.275	22.735	4.738	5.525	3.959
20	3.224	4.037	5.391	25.725	9.083	4.925	5.590
30	4.377	5.506	7.352	28.757	13.034	4.479	7.121
40	5.438	6.854	9.159	31.830	16.593	4.187	8.552
50	6.409	8.082	10.812	34.946	19.758	4.048	9.882
60	7.290	9.188	12.310	38.104	22.531	4.062	11.112
120	12.086	16.556	18.338	58.926	30.510	7.804	18.317
180	15.186	19.765	20.401	67.677	31.403	10.243	21.690
240	16.038	20.773	21.617	75.687	32.324	12.455	23.210
300	16.837	21.730	22.751	82.958	33.275	14.422	24.620
360	17.583	22.636	23.801	89.489	34.255	16.143	25.920
420	18.276	23.490	24.769	95.280	35.265	17.620	27.109
480	18.916	24.293	25.655	100.331	36.304	18.851	28.188
540	19.503	25.044	26.457	104.642	37.373	19.836	29.156
600	20.036	25.744	27.177	108.214	38.470	20.577	30.014
660	20.517	26.392	27.814	111.045	39.598	21.072	30.761
720	20.944	26.990	28.368	113.137	40.754	21.322	31.398

Poll utant Name: Oxi des of Ni trogen Temperature: 90F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.343	0.435	0.869	1.021	1.062	0.212	0.517
10	0.417	0.532	1.040	1.447	1.600	0.237	0.641
20	0.546	0.702	1.342	2.196	2.545	0.282	0.860
30	0.653	0.842	1.591	2.807	3.315	0.320	1.041

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

40	0.737	0.952	1.787	3.282	3.911	0.351	1.182
50	0.798	1.032	1.930	3.620	4.331	0.376	1.284
60	0.836	1.082	2.019	3.822	4.576	0.394	1.347
120	0.868	1.126	2.101	3.843	4.605	0.395	1.391
180	0.896	1.158	2.112	3.821	4.589	0.387	1.414
240	0.889	1.149	2.098	3.790	4.563	0.376	1.403
300	0.880	1.137	2.076	3.750	4.528	0.362	1.388
360	0.867	1.122	2.048	3.699	4.484	0.346	1.369
420	0.852	1.102	2.013	3.640	4.432	0.327	1.345
480	0.833	1.079	1.971	3.570	4.370	0.306	1.317
540	0.812	1.052	1.922	3.491	4.299	0.282	1.285
600	0.788	1.022	1.867	3.403	4.220	0.255	1.248
660	0.761	0.988	1.804	3.304	4.132	0.225	1.207
720	0.731	0.950	1.735	3.197	4.034	0.193	1.162

ALL Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.894	12.231	17.451	27.618	4.442	26.932	13.998
10	14.019	15.851	21.926	32.551	8.857	29.590	17.676
20	20.484	23.324	31.297	42.246	17.614	34.766	25.255
30	27.235	31.108	41.229	51.712	26.272	39.755	33.132
40	34.273	39.202	51.723	60.948	34.832	44.556	41.307
50	41.598	47.607	62.779	69.955	43.294	49.171	49.779
60	49.209	56.323	74.396	78.733	51.658	53.598	58.549
120	94.700	107.852	147.665	118.023	87.860	74.151	110.321
180	108.684	123.870	169.217	128.264	103.799	75.642	125.941
240	122.202	139.338	190.158	137.903	118.798	77.049	141.032
300	135.254	154.256	210.487	146.941	132.855	78.370	155.593
360	147.840	168.623	230.204	155.377	145.972	79.607	169.626
420	159.960	182.440	249.308	163.212	158.148	80.759	183.129
480	171.614	195.707	267.802	170.445	169.384	81.825	196.103
540	182.801	208.424	285.683	177.077	179.678	82.807	208.549
600	193.523	220.591	302.952	183.106	189.032	83.704	220.465
660	203.779	232.207	319.609	188.535	197.445	84.516	231.852
720	213.568	243.273	335.655	193.361	204.917	85.243	242.710

ALL Pollutant Name: Sulfur Dioxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.001	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.000	0.000
20	0.000	0.000	0.000	0.001	0.000	0.000	0.000
30	0.000	0.000	0.001	0.001	0.000	0.000	0.000
40	0.000	0.001	0.001	0.001	0.001	0.001	0.001
50	0.001	0.001	0.001	0.001	0.001	0.001	0.001
60	0.001	0.001	0.001	0.001	0.001	0.001	0.001
120	0.001	0.001	0.002	0.002	0.001	0.001	0.001
180	0.001	0.002	0.002	0.002	0.002	0.001	0.002
240	0.001	0.002	0.002	0.003	0.002	0.001	0.002
300	0.002	0.002	0.002	0.003	0.002	0.001	0.002
360	0.002	0.002	0.003	0.003	0.002	0.001	0.002
420	0.002	0.002	0.003	0.003	0.002	0.001	0.002

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

480	0.002	0.002	0.003	0.003	0.002	0.001	0.002
540	0.002	0.002	0.003	0.003	0.002	0.001	0.003
600	0.002	0.003	0.003	0.004	0.002	0.001	0.003
660	0.002	0.003	0.004	0.004	0.003	0.001	0.003
720	0.002	0.003	0.004	0.004	0.003	0.001	0.003

ALL Pollutant Name: PM2.5 Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.002	0.001	0.012	0.001
10	0.002	0.003	0.002	0.002	0.001	0.010	0.002
20	0.003	0.005	0.003	0.002	0.003	0.008	0.004
30	0.005	0.007	0.004	0.003	0.004	0.006	0.005
40	0.006	0.009	0.005	0.003	0.005	0.005	0.007
50	0.007	0.010	0.006	0.004	0.006	0.004	0.008
60	0.008	0.012	0.007	0.004	0.006	0.003	0.009
120	0.012	0.017	0.010	0.006	0.009	0.008	0.013
180	0.012	0.018	0.011	0.007	0.009	0.012	0.014
240	0.013	0.019	0.011	0.008	0.009	0.016	0.015
300	0.013	0.019	0.012	0.008	0.009	0.019	0.015
360	0.014	0.020	0.012	0.009	0.010	0.022	0.016
420	0.014	0.021	0.013	0.009	0.010	0.025	0.017
480	0.015	0.022	0.013	0.009	0.010	0.027	0.017
540	0.015	0.022	0.013	0.010	0.011	0.028	0.018
600	0.016	0.023	0.014	0.010	0.011	0.030	0.018
660	0.016	0.023	0.014	0.010	0.011	0.030	0.018
720	0.016	0.024	0.014	0.011	0.012	0.030	0.019

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Methane Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:

ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:

ALL

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 7: Estimated Travel Fractions

Pollutant Name: ALL Temperature: ALL Relative Humidity:

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.361	0.439	0.111	0.075	0.002	0.012	1.000
%TRIP	0.338	0.406	0.168	0.073	0.000	0.015	1.000
%VEH	0.370	0.448	0.093	0.039	0.000	0.050	1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : North Coast

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Methane Temperature: 90F Relative Humidity:

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	36.683	36.053	0.000	0.000	6.729
1	15.528	23.042	12.894	33.886	21.540	37.511	20.178
2	15.528	23.042	12.894	33.886	21.540	37.511	20.178
3	15.214	22.523	12.705	33.886	21.540	37.511	19.815
4	14.620	21.545	12.349	33.886	21.540	37.511	19.132
5	14.068	20.640	12.018	33.886	21.540	37.511	18.499

50% Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	12.812	92.776	0.000	0.000	8.308
1	0.737	1.319	1.939	27.593	14.736	0.750	3.144
2	0.737	1.319	1.939	27.593	14.736	0.750	3.144
3	0.725	1.298	1.925	27.593	14.736	0.750	3.129
4	0.703	1.257	1.900	27.593	14.736	0.750	3.100
5	0.682	1.218	1.876	27.593	14.736	0.750	3.073

50% Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1691.971	5864.600	0.000	0.000	622.567
1	1389.377	1599.188	2063.530	3281.511	2542.116	238.252	1683.920
2	1389.377	1599.188	2063.530	3281.511	2542.116	238.252	1683.920
3	1351.653	1555.839	2024.354	3281.511	2542.116	238.252	1646.908
4	1280.917	1474.556	1950.896	3281.511	2542.116	238.252	1577.507
5	1215.981	1399.938	1883.460	3281.511	2542.116	238.252	1513.797

50% Pollutant Name: Sulfur Dioxide Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.056	0.000	0.000	0.006
1	0.014	0.016	0.020	0.032	0.025	0.003	0.016
2	0.014	0.016	0.020	0.032	0.025	0.003	0.016
3	0.013	0.015	0.020	0.032	0.025	0.003	0.016
4	0.013	0.015	0.019	0.032	0.025	0.003	0.015
5	0.012	0.014	0.018	0.032	0.025	0.003	0.015

50% Pollutant Name: PM2.5 Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

0	0.000	0.000	0.136	1.303	0.000	0.000	0.112
1	0.076	0.115	0.107	1.860	0.410	0.042	0.229
2	0.076	0.115	0.107	1.860	0.410	0.042	0.229
3	0.073	0.110	0.104	1.860	0.410	0.042	0.225
4	0.066	0.101	0.097	1.860	0.410	0.042	0.219
5	0.061	0.093	0.091	1.860	0.410	0.042	0.212

50% Pollutant Name: PM2.5 - Tire Wear Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.002	0.002	0.007	0.002	0.001	0.002
2	0.002	0.002	0.002	0.007	0.002	0.001	0.002
3	0.002	0.002	0.002	0.007	0.002	0.001	0.002
4	0.002	0.002	0.002	0.007	0.002	0.001	0.002
5	0.002	0.002	0.002	0.007	0.002	0.001	0.002

50% Pollutant Name: PM2.5 - Break Wear Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.005	0.005	0.005	0.010	0.005	0.003	0.006
2	0.005	0.005	0.005	0.010	0.005	0.003	0.006
3	0.005	0.005	0.005	0.010	0.005	0.003	0.006
4	0.005	0.005	0.005	0.010	0.005	0.003	0.006
5	0.005	0.005	0.005	0.010	0.005	0.003	0.006

50% Pollutant Name: Gasoline - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.218	5.143	3.674	3.186	3.441	28.275	5.734
2	6.218	5.143	3.674	3.186	3.441	28.275	5.734
3	6.391	5.287	3.751	3.186	3.441	28.275	5.880
4	6.743	5.582	3.909	3.186	3.441	28.275	6.177
5	7.103	5.883	4.070	3.186	3.441	28.275	6.480

50% Pollutant Name: Diesel - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.193	29.053	19.528	3.434	3.927	0.000	12.613
2	28.193	29.053	19.528	3.434	3.927	0.000	12.613

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

30	4.094	5.265	6.724	27.181	12.726	4.561	6.689
40	5.105	6.571	8.421	30.394	16.201	4.407	8.078
50	6.030	7.760	9.974	33.588	19.291	4.381	9.366
60	6.869	8.832	11.384	36.763	21.998	4.484	10.554
120	11.376	15.868	17.026	56.252	29.789	8.212	17.349
180	14.355	19.004	18.988	64.087	30.661	10.483	20.558
240	15.164	19.974	20.127	71.274	31.560	12.555	21.967
300	15.922	20.894	21.185	77.814	32.489	14.403	23.274
360	16.626	21.763	22.161	83.706	33.446	16.024	24.479
420	17.279	22.581	23.056	88.950	34.432	17.421	25.582
480	17.879	23.348	23.869	93.547	35.446	18.591	26.583
540	18.428	24.064	24.600	97.497	36.489	19.536	27.482
600	18.923	24.730	25.250	100.799	37.561	20.256	28.278
660	19.367	25.345	25.818	103.454	38.662	20.750	28.973
720	19.758	25.909	26.304	105.461	39.791	21.019	29.565

ALL Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.341	0.434	0.906	0.980	1.064	0.204	0.519
10	0.409	0.526	1.063	1.396	1.603	0.230	0.636
20	0.530	0.687	1.341	2.127	2.550	0.278	0.843
30	0.629	0.820	1.570	2.724	3.322	0.318	1.013
40	0.708	0.924	1.751	3.188	3.918	0.350	1.147
50	0.765	1.000	1.884	3.518	4.339	0.376	1.244
60	0.801	1.048	1.969	3.714	4.585	0.394	1.304
120	0.833	1.093	2.059	3.734	4.614	0.395	1.350
180	0.861	1.124	2.070	3.714	4.597	0.388	1.372
240	0.854	1.116	2.056	3.685	4.571	0.377	1.362
300	0.845	1.104	2.034	3.646	4.537	0.365	1.348
360	0.833	1.089	2.006	3.599	4.493	0.349	1.329
420	0.818	1.070	1.970	3.542	4.440	0.332	1.306
480	0.800	1.047	1.928	3.476	4.378	0.311	1.278
540	0.780	1.021	1.878	3.402	4.308	0.288	1.247
600	0.756	0.991	1.821	3.318	4.228	0.263	1.210
660	0.730	0.958	1.757	3.225	4.139	0.235	1.170
720	0.701	0.920	1.686	3.122	4.042	0.204	1.125

ALL Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.855	12.234	17.676	25.204	4.450	25.276	13.821
10	13.823	15.738	21.923	29.931	8.875	27.881	17.345
20	20.001	23.003	30.896	39.226	17.649	32.959	24.647
30	26.501	30.610	40.510	48.308	26.325	37.859	32.288
40	33.323	38.559	50.765	57.176	34.902	42.582	40.266
50	40.467	46.851	61.660	65.832	43.381	47.128	48.583
60	47.933	55.485	73.196	74.275	51.761	51.496	57.238
120	93.801	107.571	148.459	111.989	88.036	71.699	109.644
180	107.614	123.526	170.052	122.223	104.007	73.536	125.210
240	121.001	138.962	191.099	131.856	119.036	75.267	140.284
300	133.962	153.878	211.601	140.887	133.122	76.893	154.865
360	146.496	168.274	231.557	149.317	146.265	78.413	168.954

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

420	158.603	182.150	250.968	157.146	158.465	79.828	182.550
480	170.285	195.507	269.833	164.373	169.723	81.138	195.654
540	181.539	208.344	288.154	170.998	180.038	82.341	208.266
600	192.368	220.661	305.928	177.022	189.411	83.439	220.385
660	202.770	232.458	323.157	182.445	197.841	84.432	232.012
720	212.745	243.736	339.841	187.266	205.328	85.319	243.146

ALL Pollutant Name: Sul fur Di ox i de Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.001	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.000	0.000
20	0.000	0.000	0.000	0.001	0.000	0.000	0.000
30	0.000	0.000	0.001	0.001	0.000	0.000	0.000
40	0.000	0.000	0.001	0.001	0.001	0.001	0.001
50	0.001	0.001	0.001	0.001	0.001	0.001	0.001
60	0.001	0.001	0.001	0.001	0.001	0.001	0.001
120	0.001	0.001	0.002	0.002	0.001	0.001	0.001
180	0.001	0.002	0.002	0.002	0.002	0.001	0.002
240	0.001	0.002	0.002	0.002	0.002	0.001	0.002
300	0.002	0.002	0.002	0.003	0.002	0.001	0.002
360	0.002	0.002	0.003	0.003	0.002	0.001	0.002
420	0.002	0.002	0.003	0.003	0.002	0.001	0.002
480	0.002	0.002	0.003	0.003	0.002	0.001	0.002
540	0.002	0.002	0.003	0.003	0.002	0.001	0.002
600	0.002	0.003	0.003	0.003	0.002	0.001	0.003
660	0.002	0.003	0.004	0.004	0.003	0.001	0.003
720	0.002	0.003	0.004	0.004	0.003	0.001	0.003

ALL Pollutant Name: PM2. 5 Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.002	0.001	0.011	0.001
10	0.002	0.003	0.002	0.002	0.001	0.010	0.002
20	0.003	0.005	0.003	0.002	0.003	0.008	0.004
30	0.005	0.007	0.004	0.003	0.004	0.006	0.005
40	0.006	0.009	0.005	0.003	0.005	0.005	0.007
50	0.007	0.010	0.006	0.004	0.005	0.004	0.008
60	0.008	0.012	0.007	0.004	0.006	0.003	0.009
120	0.012	0.017	0.010	0.006	0.009	0.007	0.013
180	0.012	0.018	0.011	0.007	0.009	0.011	0.014
240	0.013	0.019	0.011	0.007	0.009	0.015	0.015
300	0.014	0.020	0.012	0.008	0.009	0.018	0.015
360	0.014	0.021	0.012	0.008	0.010	0.021	0.016
420	0.015	0.021	0.013	0.009	0.010	0.023	0.017
480	0.015	0.022	0.013	0.009	0.010	0.025	0.017
540	0.016	0.023	0.014	0.009	0.010	0.027	0.018
600	0.016	0.023	0.014	0.010	0.011	0.028	0.018
660	0.016	0.024	0.014	0.010	0.011	0.028	0.019
720	0.017	0.024	0.014	0.010	0.011	0.028	0.019

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Methane Temperature: 90F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp

Vehi cle Queui ng degF	Emi ssi ons_ North Coast LDA	LDT	MDT	Basin_2008-10_2033-34_ PM2-5_CH4_Summer HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast	Basin Average	Basin
Average		

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast	Basin Average	Basin
Average		

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

90 0.000 0.000 0.000 0.000 0.000 0.000 0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Mul ti -Day Resti ng Loss Emi ssi ons

(grams/hour)

Poll utant Name: Methane Temperature: ALL Rel ati ve Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 7: Estimated Travel Fracti ons

Poll utant Name: Temperature: ALL Rel ati ve Humi di ty:
 ALL

LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer
 %VMT 0.363 0.438 0.110 0.074 0.002 0.012 1.000
 %TRIP 0.337 0.405 0.170 0.072 0.000 0.015 1.000
 %VEH 0.370 0.448 0.093 0.039 0.000 0.050 1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : North Coast

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Methane Temperature: 90F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Year: 2010 -- Model Years 1966 to 2010 In cl usi ve -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 1: Runni ng Exhaust Emi ssi ons (grams/mi l e;
 grams/i dl e-hour)

Pol l utant Name: Methane Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.265	0.454	0.000	0.000	0.062
1	0.135	0.152	0.111	0.390	0.125	0.302	0.161
2	0.135	0.152	0.111	0.390	0.125	0.302	0.161
3	0.132	0.148	0.109	0.390	0.125	0.302	0.158
4	0.126	0.142	0.105	0.390	0.125	0.302	0.152
5	0.120	0.135	0.102	0.390	0.125	0.302	0.147

Pol l utant Name: Carbon Monoxi de Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	37.487	35.522	0.000	0.000	6.724
1	13.919	21.494	11.797	31.104	21.253	35.226	18.544
2	13.919	21.494	11.797	31.104	21.253	35.226	18.544
3	13.645	21.016	11.624	31.104	21.253	35.226	18.216
4	13.128	20.116	11.298	31.104	21.253	35.226	17.597
5	12.646	19.283	10.994	31.104	21.253	35.226	17.024

Pol l utant Name: Oxi des of Ni trogen Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	12.258	94.041	0.000	0.000	8.259
1	0.673	1.240	1.777	25.141	14.307	0.764	2.865
2	0.673	1.240	1.777	25.141	14.307	0.764	2.865
3	0.662	1.220	1.764	25.141	14.307	0.764	2.851
4	0.641	1.181	1.740	25.141	14.307	0.764	2.824
5	0.622	1.145	1.718	25.141	14.307	0.764	2.799

Pol l utant Name: Carbon Di oxi de Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1695.523	5857.587	0.000	0.000	616.689
1	1388.081	1607.151	2079.630	3274.279	2534.676	243.086	1686.017

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

2	1388.081	1607.151	2079.630	3274.279	2534.676	243.086	1686.017
3	1350.432	1563.608	2040.401	3274.279	2534.676	243.086	1648.921
4	1279.836	1481.961	1966.844	3274.279	2534.676	243.086	1579.364
5	1215.029	1407.008	1899.317	3274.279	2534.676	243.086	1515.509

50% Pollutant Name: Sul fur Di oxi de Temperature: 90F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.056	0.000	0.000	0.006
1	0.014	0.016	0.020	0.032	0.025	0.003	0.016
2	0.014	0.016	0.020	0.032	0.025	0.003	0.016
3	0.013	0.015	0.020	0.032	0.025	0.003	0.016
4	0.013	0.015	0.019	0.032	0.025	0.003	0.015
5	0.012	0.014	0.018	0.032	0.025	0.003	0.015

50% Pollutant Name: PM2.5 Temperature: 90F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.129	1.195	0.000	0.000	0.102
1	0.076	0.116	0.109	1.651	0.400	0.039	0.213
2	0.076	0.116	0.109	1.651	0.400	0.039	0.213
3	0.072	0.111	0.105	1.651	0.400	0.039	0.209
4	0.066	0.102	0.098	1.651	0.400	0.039	0.202
5	0.061	0.094	0.092	1.651	0.400	0.039	0.196

50% Pollutant Name: PM2.5 - Tire Wear Temperature: 90F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.002	0.002	0.007	0.002	0.001	0.002
2	0.002	0.002	0.002	0.007	0.002	0.001	0.002
3	0.002	0.002	0.002	0.007	0.002	0.001	0.002
4	0.002	0.002	0.002	0.007	0.002	0.001	0.002
5	0.002	0.002	0.002	0.007	0.002	0.001	0.002

50% Pollutant Name: PM2.5 - Break Wear Temperature: 90F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.005	0.005	0.005	0.010	0.005	0.003	0.006
2	0.005	0.005	0.005	0.010	0.005	0.003	0.006
3	0.005	0.005	0.005	0.010	0.005	0.003	0.006
4	0.005	0.005	0.005	0.010	0.005	0.003	0.006

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer
 5 0.005 0.005 0.005 0.010 0.005 0.003 0.006

50% Pol lutant Name: Gasol i ne - mi /gal Temperature: 90F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.238	5.139	3.676	3.211	3.442	28.177	5.743
2	6.238	5.139	3.676	3.211	3.442	28.177	5.743
3	6.412	5.283	3.753	3.211	3.442	28.177	5.889
4	6.765	5.578	3.909	3.211	3.442	28.177	6.186
5	7.125	5.878	4.069	3.211	3.442	28.177	6.489

50% Pol lutant Name: Di esel - mi /gal Temperature: 90F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.244	29.050	19.535	3.450	3.948	0.000	12.377
2	28.244	29.050	19.535	3.450	3.948	0.000	12.377
3	28.244	29.050	19.535	3.450	3.948	0.000	12.377
4	28.244	29.050	19.535	3.450	3.948	0.000	12.377
5	28.244	29.050	19.535	3.450	3.948	0.000	12.377

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starti ng Emi ssi ons (grams/tri p)

ALL Pol lutant Name: Methane Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.008	0.009	0.010	0.090	0.012	0.073	0.015
10	0.012	0.014	0.015	0.102	0.024	0.076	0.021

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

20	0.020	0.023	0.025	0.127	0.045	0.084	0.031
30	0.027	0.032	0.035	0.151	0.064	0.094	0.040
40	0.034	0.039	0.043	0.176	0.080	0.105	0.049
50	0.040	0.046	0.051	0.200	0.094	0.118	0.057
60	0.045	0.051	0.058	0.216	0.106	0.125	0.063
120	0.059	0.070	0.078	0.255	0.127	0.147	0.082
180	0.064	0.076	0.083	0.274	0.135	0.158	0.088
240	0.068	0.080	0.088	0.292	0.142	0.170	0.094
300	0.072	0.085	0.093	0.310	0.150	0.181	0.099
360	0.075	0.089	0.098	0.328	0.157	0.193	0.104
420	0.079	0.093	0.103	0.346	0.164	0.204	0.110
480	0.082	0.097	0.107	0.363	0.170	0.215	0.115
540	0.086	0.101	0.112	0.380	0.176	0.226	0.119
600	0.089	0.105	0.116	0.397	0.182	0.238	0.124
660	0.092	0.108	0.121	0.414	0.188	0.249	0.129
720	0.095	0.112	0.125	0.430	0.194	0.260	0.133

ALL Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	1.045	1.366	1.603	16.877	2.335	5.180	2.458
10	1.637	2.152	2.590	18.647	4.575	5.018	3.269
20	2.760	3.639	4.463	22.129	8.769	4.774	4.817
30	3.801	5.013	6.201	25.535	12.585	4.638	6.263
40	4.760	6.273	7.805	28.864	16.020	4.608	7.609
50	5.637	7.420	9.274	32.116	19.077	4.684	8.855
60	6.432	8.454	10.609	35.292	21.754	4.868	10.000
120	10.639	15.145	15.926	53.407	29.458	8.586	16.385
180	13.476	18.190	17.797	60.327	30.320	10.705	19.419
240	14.236	19.117	18.874	66.691	31.209	12.654	20.717
300	14.945	19.995	19.870	72.499	32.128	14.395	21.922
360	15.604	20.823	20.785	77.751	33.074	15.928	23.033
420	16.213	21.602	21.620	82.447	34.049	17.253	24.051
480	16.770	22.331	22.373	86.587	35.052	18.370	24.974
540	17.278	23.011	23.045	90.171	36.084	19.279	25.805
600	17.734	23.641	23.637	93.199	37.144	19.980	26.541
660	18.140	24.221	24.148	95.671	38.232	20.474	27.184
720	18.496	24.752	24.577	97.587	39.349	20.759	27.733

ALL Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.334	0.429	0.931	0.936	1.069	0.197	0.516
10	0.397	0.515	1.076	1.341	1.610	0.225	0.626
20	0.508	0.667	1.333	2.053	2.561	0.274	0.821
30	0.600	0.793	1.546	2.634	3.336	0.316	0.981
40	0.673	0.891	1.714	3.085	3.935	0.350	1.107
50	0.726	0.963	1.838	3.406	4.358	0.376	1.199
60	0.759	1.008	1.918	3.596	4.605	0.395	1.256
120	0.792	1.054	2.014	3.616	4.635	0.396	1.303
180	0.819	1.084	2.025	3.597	4.618	0.389	1.325
240	0.813	1.077	2.011	3.570	4.592	0.379	1.316
300	0.804	1.065	1.990	3.534	4.557	0.367	1.302

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

360	0.792	1.050	1.962	3.489	4.513	0.353	1.284
420	0.778	1.032	1.926	3.436	4.460	0.336	1.261
480	0.761	1.010	1.883	3.374	4.398	0.316	1.234
540	0.741	0.984	1.832	3.303	4.327	0.294	1.203
600	0.719	0.955	1.775	3.224	4.247	0.270	1.168
660	0.693	0.922	1.710	3.136	4.158	0.243	1.128
720	0.665	0.886	1.638	3.039	4.060	0.214	1.084

Pollutant Name: Carbon Dioxide

Temperature: 90F

Relative Humidity:

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.803	12.239	17.898	22.906	4.447	23.770	13.655
10	13.615	15.627	21.952	27.435	8.867	26.327	17.033
20	19.507	22.686	30.588	36.345	17.635	31.314	24.070
30	25.757	30.118	39.931	45.057	26.304	36.133	31.483
40	32.364	37.925	49.982	53.571	34.875	40.782	39.274
50	39.329	46.106	60.739	61.888	43.347	45.263	47.441
60	46.652	54.662	72.204	70.007	51.721	49.576	55.986
120	92.895	107.323	149.140	106.201	87.967	69.455	108.983
180	106.544	123.221	170.752	116.420	103.925	71.603	124.493
240	119.805	138.630	191.876	126.038	118.942	73.627	139.546
300	132.679	153.549	212.511	135.055	133.016	75.526	154.141
360	145.166	167.979	232.657	143.471	146.149	77.302	168.280
420	157.265	181.920	252.315	151.286	158.340	78.954	181.960
480	168.977	195.371	271.484	158.501	169.589	80.481	195.184
540	180.301	208.333	290.165	165.115	179.896	81.885	207.950
600	191.239	220.806	308.357	171.128	189.261	83.164	220.258
660	201.789	232.789	326.061	176.540	197.684	84.319	232.109
720	211.951	244.282	343.276	181.351	205.166	85.351	243.503

Pollutant Name: Sulfur Dioxide

Temperature: 90F

Relative Humidity:

ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.001	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.000	0.000
20	0.000	0.000	0.000	0.001	0.000	0.000	0.000
30	0.000	0.000	0.000	0.001	0.000	0.000	0.000
40	0.000	0.000	0.001	0.001	0.001	0.001	0.001
50	0.000	0.001	0.001	0.001	0.001	0.001	0.001
60	0.001	0.001	0.001	0.001	0.001	0.001	0.001
120	0.001	0.001	0.002	0.002	0.001	0.001	0.001
180	0.001	0.001	0.002	0.002	0.002	0.001	0.002
240	0.001	0.002	0.002	0.002	0.002	0.001	0.002
300	0.002	0.002	0.002	0.003	0.002	0.001	0.002
360	0.002	0.002	0.003	0.003	0.002	0.001	0.002
420	0.002	0.002	0.003	0.003	0.002	0.001	0.002
480	0.002	0.002	0.003	0.003	0.002	0.001	0.002
540	0.002	0.002	0.003	0.003	0.002	0.001	0.002
600	0.002	0.003	0.003	0.003	0.002	0.001	0.003
660	0.002	0.003	0.004	0.003	0.003	0.001	0.003
720	0.002	0.003	0.004	0.003	0.003	0.001	0.003

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

ALL Poll utant Name: PM2. 5 Temperature: 90F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.001	0.010	0.001
10	0.002	0.003	0.001	0.002	0.001	0.009	0.002
20	0.003	0.005	0.003	0.002	0.002	0.007	0.004
30	0.005	0.007	0.004	0.003	0.004	0.005	0.005
40	0.006	0.009	0.005	0.003	0.005	0.004	0.007
50	0.007	0.010	0.006	0.004	0.005	0.003	0.008
60	0.008	0.012	0.007	0.004	0.006	0.003	0.009
120	0.012	0.017	0.010	0.006	0.008	0.007	0.013
180	0.012	0.018	0.011	0.007	0.009	0.011	0.014
240	0.013	0.019	0.012	0.007	0.009	0.014	0.015
300	0.014	0.020	0.012	0.008	0.009	0.017	0.016
360	0.014	0.021	0.013	0.008	0.010	0.020	0.016
420	0.015	0.022	0.013	0.008	0.010	0.022	0.017
480	0.015	0.023	0.014	0.009	0.010	0.024	0.018
540	0.016	0.023	0.014	0.009	0.010	0.025	0.018
600	0.016	0.024	0.014	0.009	0.011	0.026	0.019
660	0.016	0.024	0.015	0.010	0.011	0.027	0.019
720	0.017	0.025	0.015	0.010	0.011	0.027	0.019

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emi ssi ons (grams/trip)

ALL Poll utant Name: Methane Temperature: 90F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane		Temperature: ALL					Relative Humidity:	
ALL		LDA	LDT	MDT	HDT	UBUS	MCY	ALL
Temp degF								
90		0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane		Temperature: ALL					Relative Humidity:	
ALL		LDA	LDT	MDT	HDT	UBUS	MCY	ALL
Temp degF								
90		0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 6a: Parti al Day Resti ng Loss Emi ssi ons

(grams/hour)

Poll utant Name: Methane Temperature: ALL Rel ative Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 6b: Mul ti -Day Resti ng Loss Emi ssi ons

(grams/hour)

Poll utant Name: Methane Temperature: ALL Rel ative Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.365	0.437	0.110	0.074	0.002	0.013	1.000
%TRIP	0.337	0.405	0.172	0.071	0.000	0.015	1.000
%VEH	0.369	0.448	0.093	0.038	0.000	0.050	1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : North Coast

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Methane Temperature: 90F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 1: Running Exhaust Emissions (grams/mile;

grams/minute-hour)

Pollutant Name: Methane Temperature: 90F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.292	0.301	0.000	0.000	0.048
1	0.044	0.058	0.060	0.079	0.079	0.293	0.057
2	0.044	0.058	0.060	0.079	0.079	0.293	0.057
3	0.043	0.056	0.059	0.079	0.079	0.293	0.056
4	0.040	0.053	0.057	0.079	0.079	0.293	0.053
5	0.037	0.050	0.055	0.079	0.079	0.293	0.050

Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	41.008	32.656	0.000	0.000	6.156
1	1.552	2.365	2.640	5.056	13.489	24.260	2.544
2	1.552	2.365	2.640	5.056	13.489	24.260	2.544
3	1.537	2.340	2.618	5.056	13.489	24.260	2.525

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

4	1.508	2.292	2.576	5.056	13.489	24.260	2.488
5	1.479	2.246	2.534	5.056	13.489	24.260	2.452

50% Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	8.200	98.499	0.000	0.000	7.289
1	0.075	0.138	0.283	4.010	5.183	0.842	0.400
2	0.075	0.138	0.283	4.010	5.183	0.842	0.400
3	0.074	0.135	0.281	4.010	5.183	0.842	0.398
4	0.071	0.131	0.277	4.010	5.183	0.842	0.395
5	0.069	0.128	0.273	4.010	5.183	0.842	0.393

50% Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1661.372	5624.436	0.000	0.000	532.758
1	1382.419	1726.114	2204.861	3105.516	2396.296	266.377	1718.700
2	1382.419	1726.114	2204.861	3105.516	2396.296	266.377	1718.700
3	1345.177	1679.457	2164.265	3105.516	2396.296	266.377	1679.868
4	1275.344	1591.970	2088.143	3105.516	2396.296	266.377	1607.054
5	1211.236	1511.657	2018.264	3105.516	2396.296	266.377	1540.211

50% Pollutant Name: Sulfur Dioxide Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.054	0.000	0.000	0.005
1	0.013	0.017	0.021	0.030	0.023	0.003	0.017
2	0.013	0.017	0.021	0.030	0.023	0.003	0.017
3	0.013	0.016	0.021	0.030	0.023	0.003	0.016
4	0.012	0.015	0.020	0.030	0.023	0.003	0.015
5	0.012	0.015	0.019	0.030	0.023	0.003	0.015

50% Pollutant Name: PM2.5 Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.076	0.248	0.000	0.000	0.024
1	0.064	0.103	0.118	0.131	0.193	0.023	0.091
2	0.064	0.103	0.118	0.131	0.193	0.023	0.091
3	0.061	0.099	0.113	0.131	0.193	0.023	0.087
4	0.056	0.090	0.104	0.131	0.193	0.023	0.080
5	0.051	0.082	0.096	0.131	0.193	0.023	0.074

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

50% Pol l utant Name: PM2.5 - Tire Wear Temperature: 90F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.002	0.002	0.007	0.003	0.001	0.002
2	0.002	0.002	0.002	0.007	0.003	0.001	0.002
3	0.002	0.002	0.002	0.007	0.003	0.001	0.002
4	0.002	0.002	0.002	0.007	0.003	0.001	0.002
5	0.002	0.002	0.002	0.007	0.003	0.001	0.002

50% Pol l utant Name: PM2.5 - Break Wear Temperature: 90F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.005	0.005	0.005	0.010	0.005	0.003	0.006
2	0.005	0.005	0.005	0.010	0.005	0.003	0.006
3	0.005	0.005	0.005	0.010	0.005	0.003	0.006
4	0.005	0.005	0.005	0.010	0.005	0.003	0.006
5	0.005	0.005	0.005	0.010	0.005	0.003	0.006

50% Pol l utant Name: Gasol i ne - mi /gal Temperature: 90F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.396	5.104	3.687	3.506	3.471	27.709	5.766
2	6.396	5.104	3.687	3.506	3.471	27.709	5.766
3	6.573	5.246	3.761	3.506	3.471	27.709	5.912
4	6.933	5.534	3.912	3.506	3.471	27.709	6.210
5	7.299	5.828	4.066	3.506	3.471	27.709	6.513

50% Pol l utant Name: Di esel - mi /gal Temperature: 90F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.449	3.765	4.429	0.000	6.692
2	29.156	29.156	19.449	3.765	4.429	0.000	6.692
3	29.156	29.156	19.449	3.765	4.429	0.000	6.692
4	29.156	29.156	19.449	3.765	4.429	0.000	6.692
5	29.156	29.156	19.449	3.765	4.429	0.000	6.692

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 2: Starting Emi ssi ons (grams/trip)

ALL Pollutant Name: Methane Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.001	0.002	0.003	0.011	0.039	0.001
10	0.001	0.001	0.003	0.005	0.022	0.047	0.002
20	0.001	0.002	0.007	0.010	0.042	0.062	0.004
30	0.001	0.003	0.010	0.015	0.060	0.077	0.006
40	0.002	0.004	0.013	0.018	0.075	0.091	0.007
50	0.002	0.004	0.016	0.021	0.089	0.104	0.008
60	0.003	0.005	0.019	0.024	0.099	0.113	0.010
120	0.004	0.008	0.033	0.029	0.120	0.135	0.014
180	0.004	0.008	0.035	0.031	0.127	0.144	0.015
240	0.005	0.009	0.037	0.032	0.134	0.153	0.016
300	0.005	0.009	0.040	0.034	0.141	0.162	0.017
360	0.005	0.010	0.042	0.036	0.147	0.171	0.018
420	0.005	0.010	0.044	0.037	0.154	0.180	0.019
480	0.006	0.011	0.047	0.039	0.160	0.189	0.020
540	0.006	0.011	0.049	0.040	0.166	0.197	0.021
600	0.006	0.012	0.051	0.042	0.171	0.205	0.022
660	0.006	0.012	0.053	0.043	0.177	0.213	0.023
720	0.007	0.013	0.055	0.044	0.182	0.221	0.024

ALL Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.065	0.118	0.413	0.752	1.835	3.021	0.239
10	0.129	0.234	0.819	1.473	3.596	3.491	0.435
20	0.252	0.455	1.603	2.823	6.894	4.399	0.809
30	0.369	0.664	2.355	4.051	9.894	5.266	1.162
40	0.479	0.859	3.072	5.157	12.595	6.090	1.493
50	0.584	1.043	3.757	6.141	14.998	6.872	1.802
60	0.681	1.213	4.407	7.003	17.103	7.612	2.090
120	1.102	1.957	7.253	9.483	23.160	11.341	3.271
180	1.576	2.729	8.304	9.760	23.837	12.465	3.969
240	1.710	2.943	9.077	10.047	24.536	13.605	4.279

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

300	1.828	3.133	9.755	10.342	25.258	14.653	4.555
360	1.930	3.299	10.336	10.647	26.002	15.609	4.798
420	2.017	3.442	10.822	10.961	26.768	16.474	5.007
480	2.088	3.561	11.212	11.284	27.557	17.248	5.183
540	2.144	3.657	11.505	11.616	28.367	17.930	5.326
600	2.183	3.729	11.703	11.957	29.201	18.520	5.436
660	2.208	3.777	11.805	12.307	30.056	19.019	5.512
720	2.216	3.802	11.810	12.667	30.934	19.427	5.554

ALL Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.046	0.091	0.808	0.207	0.993	0.148	0.218
10	0.049	0.097	0.830	0.312	1.497	0.186	0.232
20	0.054	0.108	0.870	0.496	2.381	0.253	0.259
30	0.058	0.118	0.907	0.646	3.101	0.309	0.281
40	0.062	0.126	0.941	0.761	3.658	0.353	0.300
50	0.065	0.132	0.970	0.843	4.051	0.385	0.315
60	0.067	0.137	0.997	0.891	4.280	0.406	0.325
120	0.073	0.148	1.102	0.897	4.308	0.407	0.352
180	0.076	0.154	1.105	0.893	4.292	0.403	0.355
240	0.075	0.153	1.096	0.888	4.268	0.397	0.353
300	0.074	0.151	1.081	0.882	4.235	0.389	0.348
360	0.073	0.148	1.060	0.873	4.194	0.380	0.342
420	0.071	0.145	1.033	0.863	4.145	0.369	0.335
480	0.069	0.141	1.000	0.851	4.088	0.356	0.325
540	0.067	0.136	0.962	0.837	4.022	0.342	0.314
600	0.064	0.131	0.917	0.822	3.947	0.326	0.302
660	0.061	0.125	0.866	0.804	3.865	0.309	0.287
720	0.058	0.118	0.809	0.785	3.774	0.290	0.271

ALL Pollutant Name: Carbon Dioxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.260	15.236	22.138	2.663	4.842	13.082	14.703
10	13.738	17.144	24.812	5.311	9.658	15.272	16.660
20	17.197	21.581	31.071	10.564	19.209	19.573	21.157
30	21.328	26.846	38.543	15.758	28.652	23.768	26.432
40	26.130	32.941	47.227	20.892	37.989	27.857	32.485
50	31.605	39.864	57.124	25.968	47.218	31.840	39.316
60	37.752	47.615	68.233	30.985	56.340	35.716	46.924
120	88.189	110.625	159.337	52.700	95.824	53.118	107.671
180	100.075	125.610	180.819	62.261	113.209	57.390	122.324
240	111.948	140.563	202.277	71.257	129.568	61.412	136.917
300	123.809	155.482	223.710	79.690	144.901	65.183	151.448
360	135.657	170.368	245.119	87.558	159.208	68.703	165.917
420	147.492	185.221	266.502	94.862	172.488	71.972	180.326
480	159.314	200.041	287.861	101.601	184.743	74.991	194.673
540	171.124	214.828	309.195	107.776	195.971	77.759	208.959
600	182.920	229.581	330.505	113.387	206.173	80.276	223.183
660	194.704	244.302	351.790	118.433	215.349	82.542	237.346
720	206.475	258.989	373.050	122.916	223.499	84.557	251.448

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

ALL Pol l utant Name: Sul fur Di oxi de Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.001	0.000	0.001	0.000	0.000
50	0.000	0.000	0.001	0.000	0.001	0.000	0.000
60	0.000	0.000	0.001	0.000	0.001	0.001	0.000
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.002	0.001	0.001
240	0.001	0.001	0.002	0.001	0.002	0.001	0.001
300	0.001	0.002	0.002	0.001	0.002	0.001	0.002
360	0.001	0.002	0.003	0.001	0.002	0.001	0.002
420	0.001	0.002	0.003	0.001	0.002	0.001	0.002
480	0.002	0.002	0.003	0.001	0.002	0.001	0.002
540	0.002	0.002	0.003	0.001	0.002	0.001	0.002
600	0.002	0.002	0.003	0.001	0.003	0.001	0.002
660	0.002	0.002	0.004	0.001	0.003	0.001	0.002
720	0.002	0.003	0.004	0.001	0.003	0.001	0.003

ALL Pol l utant Name: PM2. 5 Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.001	0.001	0.000	0.001	0.005	0.001
10	0.001	0.002	0.001	0.001	0.001	0.005	0.001
20	0.002	0.003	0.003	0.001	0.003	0.004	0.002
30	0.003	0.004	0.004	0.002	0.004	0.003	0.004
40	0.004	0.006	0.005	0.002	0.005	0.003	0.005
50	0.004	0.007	0.006	0.002	0.006	0.002	0.006
60	0.005	0.008	0.007	0.003	0.007	0.002	0.007
120	0.008	0.014	0.012	0.004	0.009	0.005	0.011
180	0.009	0.015	0.013	0.004	0.010	0.006	0.012
240	0.010	0.017	0.015	0.004	0.010	0.008	0.013
300	0.011	0.018	0.016	0.004	0.010	0.010	0.014
360	0.012	0.019	0.017	0.004	0.010	0.011	0.015
420	0.012	0.020	0.018	0.004	0.011	0.012	0.016
480	0.013	0.020	0.018	0.005	0.011	0.013	0.016
540	0.013	0.021	0.019	0.005	0.011	0.014	0.017
600	0.013	0.021	0.019	0.005	0.012	0.014	0.017
660	0.013	0.021	0.019	0.005	0.012	0.014	0.017
720	0.013	0.022	0.019	0.005	0.012	0.015	0.017

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Methane Temperature: 90F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 5b: Mul ti -Day Di urnal Loss Emi ssi ons

(grams/hour)

Poll utant Name: Methane Temperature: ALL Rel ati ve Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6a: Parti al Day Resti ng Loss Emi ssi ons

(grams/hour)

Poll utant Name: Methane Temperature: ALL Rel ati ve Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Mul ti -Day Resti ng Loss Emi ssi ons

(grams/hour)

ALL	Pol l utant Name: Methane	Temperature: ALL					Rel ati ve Humi di ty:	
Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 7: Estimated Travel Fracti ons

ALL	Pol l utant Name:	Temperature: ALL					Rel ati ve Humi di ty:	
	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
%VMT	0.375	0.448	0.098	0.066	0.002	0.012	1.000	
%TRIP	0.336	0.400	0.186	0.062	0.000	0.015	1.000	
%VEH	0.368	0.448	0.095	0.036	0.000	0.052	1.000	

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : North Coast

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 8: Evaporati ve Runni ng Loss Emi ssi ons

(grams/mi nute)

Poll utant Name: Methane Temperature: 90F Rel ati ve Humi di ty:
 ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer
 Table 1: Runni ng Exhaust Emi ssi ons (grams/mi l e;
 grams/i dl e-hour)

Pol l utant Name: Methane Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.293	0.300	0.000	0.000	0.048
1	0.044	0.057	0.060	0.078	0.078	0.293	0.057
2	0.044	0.057	0.060	0.078	0.078	0.293	0.057
3	0.042	0.055	0.059	0.078	0.078	0.293	0.055
4	0.039	0.052	0.056	0.078	0.078	0.293	0.052
5	0.036	0.049	0.054	0.078	0.078	0.293	0.050

Pol l utant Name: Carbon Monoxi de Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	41.073	32.677	0.000	0.000	6.145
1	1.497	2.205	2.580	4.989	13.335	24.254	2.439
2	1.497	2.205	2.580	4.989	13.335	24.254	2.439
3	1.483	2.183	2.558	4.989	13.335	24.254	2.422
4	1.454	2.139	2.517	4.989	13.335	24.254	2.387
5	1.427	2.097	2.477	4.989	13.335	24.254	2.354

Pol l utant Name: Oxi des of Ni trogen Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	8.158	98.284	0.000	0.000	7.227
1	0.071	0.124	0.267	3.936	4.794	0.842	0.384
2	0.071	0.124	0.267	3.936	4.794	0.842	0.384
3	0.070	0.123	0.265	3.936	4.794	0.842	0.383
4	0.068	0.119	0.261	3.936	4.794	0.842	0.380
5	0.066	0.116	0.258	3.936	4.794	0.842	0.377

Pol l utant Name: Carbon Di oxo de Temperature: 90F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	1661.141	5613.342	0.000	0.000	529.361
1	1382.408	1727.423	2206.223	3099.438	2390.352	266.391	1718.414
2	1382.408	1727.423	2206.223	3099.438	2390.352	266.391	1718.414
3	1345.168	1680.728	2165.614	3099.438	2390.352	266.391	1679.541
4	1275.338	1593.170	2089.468	3099.438	2390.352	266.391	1606.651
5	1211.234	1512.791	2019.566	3099.438	2390.352	266.391	1539.738

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

50% Pollutant Name: Sul fur Di oxide Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.017	0.054	0.000	0.000	0.005
1	0.013	0.017	0.021	0.030	0.023	0.003	0.017
2	0.013	0.017	0.021	0.030	0.023	0.003	0.017
3	0.013	0.016	0.021	0.030	0.023	0.003	0.016
4	0.012	0.015	0.020	0.030	0.023	0.003	0.015
5	0.012	0.015	0.019	0.030	0.023	0.003	0.015

50% Pollutant Name: PM2.5 Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.076	0.245	0.000	0.000	0.023
1	0.064	0.103	0.118	0.128	0.184	0.023	0.091
2	0.064	0.103	0.118	0.128	0.184	0.023	0.091
3	0.061	0.098	0.113	0.128	0.184	0.023	0.087
4	0.056	0.089	0.104	0.128	0.184	0.023	0.080
5	0.051	0.081	0.096	0.128	0.184	0.023	0.074

50% Pollutant Name: PM2.5 - Tire Wear Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.002	0.002	0.007	0.003	0.001	0.002
2	0.002	0.002	0.002	0.007	0.003	0.001	0.002
3	0.002	0.002	0.002	0.007	0.003	0.001	0.002
4	0.002	0.002	0.002	0.007	0.003	0.001	0.002
5	0.002	0.002	0.002	0.007	0.003	0.001	0.002

50% Pollutant Name: PM2.5 - Break Wear Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.005	0.005	0.005	0.010	0.005	0.003	0.006
2	0.005	0.005	0.005	0.010	0.005	0.003	0.006
3	0.005	0.005	0.005	0.010	0.005	0.003	0.006
4	0.005	0.005	0.005	0.010	0.005	0.003	0.006
5	0.005	0.005	0.005	0.010	0.005	0.003	0.006

50% Pollutant Name: Gasoline - mi/gal Temperature: 90F Relative Humidity:

Vehi cle Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.397	5.104	3.687	3.507	3.472	27.709	5.765
2	6.397	5.104	3.687	3.507	3.472	27.709	5.765
3	6.574	5.246	3.761	3.507	3.472	27.709	5.911
4	6.933	5.534	3.912	3.507	3.472	27.709	6.208
5	7.300	5.828	4.066	3.507	3.472	27.709	6.512

50% Pollutant Name: Diesel - mi/gal Temperature: 90F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.446	3.775	4.457	0.000	6.614
2	29.156	29.156	19.446	3.775	4.457	0.000	6.614
3	29.156	29.156	19.446	3.775	4.457	0.000	6.614
4	29.156	29.156	19.446	3.775	4.457	0.000	6.614
5	29.156	29.156	19.446	3.775	4.457	0.000	6.614

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Methane Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.002	0.003	0.012	0.039	0.001
10	0.000	0.001	0.003	0.005	0.023	0.047	0.002
20	0.001	0.002	0.006	0.010	0.043	0.062	0.004
30	0.001	0.002	0.010	0.014	0.061	0.077	0.005
40	0.002	0.003	0.013	0.018	0.076	0.091	0.007
50	0.002	0.004	0.016	0.021	0.089	0.104	0.008
60	0.002	0.004	0.018	0.023	0.100	0.113	0.009
120	0.004	0.007	0.033	0.028	0.121	0.135	0.014
180	0.004	0.007	0.035	0.029	0.128	0.144	0.015

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

240	0.004	0.008	0.037	0.031	0.135	0.153	0.016
300	0.004	0.008	0.039	0.033	0.142	0.162	0.017
360	0.005	0.009	0.042	0.034	0.149	0.171	0.018
420	0.005	0.009	0.044	0.036	0.155	0.180	0.019
480	0.005	0.010	0.046	0.037	0.161	0.189	0.019
540	0.005	0.010	0.048	0.038	0.167	0.197	0.020
600	0.006	0.011	0.051	0.040	0.173	0.205	0.021
660	0.006	0.011	0.053	0.041	0.178	0.213	0.022
720	0.006	0.011	0.055	0.042	0.184	0.221	0.023

ALL Pollutant Name: Carbon Monoxide Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.061	0.106	0.410	0.725	1.841	3.017	0.230
10	0.120	0.210	0.812	1.421	3.606	3.488	0.417
20	0.234	0.409	1.591	2.724	6.914	4.399	0.776
30	0.343	0.598	2.337	3.909	9.922	5.267	1.114
40	0.446	0.775	3.050	4.977	12.631	6.093	1.432
50	0.543	0.942	3.730	5.926	15.041	6.877	1.729
60	0.635	1.097	4.377	6.758	17.151	7.618	2.006
120	1.031	1.775	7.212	9.151	23.225	11.347	3.145
180	1.484	2.502	8.255	9.419	23.904	12.470	3.816
240	1.613	2.706	9.029	9.695	24.605	13.608	4.119
300	1.726	2.887	9.706	9.980	25.329	14.654	4.390
360	1.824	3.044	10.286	10.274	26.075	15.610	4.627
420	1.907	3.179	10.771	10.577	26.844	16.474	4.830
480	1.975	3.290	11.159	10.889	27.634	17.247	5.001
540	2.027	3.377	11.451	11.209	28.448	17.928	5.139
600	2.064	3.442	11.647	11.538	29.283	18.519	5.243
660	2.086	3.484	11.746	11.876	30.141	19.018	5.314
720	2.092	3.502	11.750	12.223	31.021	19.426	5.352

ALL Pollutant Name: Oxides of Nitrogen Temperature: 90F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.044	0.084	0.803	0.196	1.002	0.148	0.213
10	0.046	0.089	0.824	0.296	1.509	0.186	0.226
20	0.050	0.099	0.862	0.471	2.400	0.253	0.250
30	0.054	0.107	0.897	0.613	3.126	0.309	0.271
40	0.057	0.113	0.929	0.723	3.688	0.353	0.289
50	0.059	0.119	0.958	0.801	4.084	0.385	0.302
60	0.061	0.123	0.983	0.846	4.315	0.406	0.312
120	0.067	0.133	1.088	0.851	4.343	0.407	0.338
180	0.069	0.138	1.091	0.848	4.327	0.403	0.342
240	0.069	0.137	1.082	0.844	4.303	0.397	0.339
300	0.068	0.136	1.067	0.837	4.270	0.389	0.335
360	0.067	0.133	1.047	0.829	4.229	0.380	0.329
420	0.065	0.130	1.020	0.819	4.179	0.369	0.321
480	0.063	0.127	0.988	0.808	4.121	0.357	0.312
540	0.061	0.122	0.949	0.795	4.054	0.342	0.302
600	0.058	0.117	0.905	0.780	3.979	0.326	0.289
660	0.056	0.112	0.854	0.764	3.896	0.309	0.275
720	0.052	0.105	0.798	0.746	3.804	0.290	0.260

Vehi cl e Queui ng Emi ssi ons_North Coast Basi n_2008-10_2033-34_PM2-5_CH4_Summer

ALL Poll utant Name: Carbon Di oxi de Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.281	15.308	22.195	2.665	4.879	13.059	14.753
10	13.750	17.196	24.861	5.315	9.731	15.249	16.697
20	17.193	21.598	31.104	10.571	19.354	19.548	21.172
30	21.310	26.834	38.565	15.768	28.868	23.742	26.430
40	26.101	32.906	47.243	20.906	38.275	27.829	32.469
50	31.566	39.813	57.138	25.985	47.574	31.811	39.291
60	37.705	47.556	68.251	31.006	56.765	35.686	46.895
120	88.176	110.730	159.516	52.735	96.547	53.082	107.762
180	100.048	125.699	181.005	62.303	114.063	57.359	122.408
240	111.910	140.642	202.474	71.305	130.546	61.385	136.998
300	123.763	155.559	223.922	79.743	145.994	65.159	151.531
360	135.605	170.450	245.349	87.617	160.409	68.683	166.006
420	147.437	185.314	266.755	94.926	173.789	71.955	180.425
480	159.259	200.152	288.140	101.670	186.136	74.977	194.787
540	171.071	214.964	309.505	107.849	197.449	77.747	209.093
600	182.873	229.749	330.848	113.463	207.729	80.267	223.341
660	194.665	244.508	352.171	118.513	216.974	82.535	237.533
720	206.447	259.241	373.473	122.999	225.186	84.552	251.667

ALL Poll utant Name: Sul fur Di oxi de Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.001	0.000	0.001	0.000	0.000
50	0.000	0.000	0.001	0.000	0.001	0.000	0.000
60	0.000	0.000	0.001	0.000	0.001	0.001	0.000
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.002	0.001	0.001
240	0.001	0.001	0.002	0.001	0.002	0.001	0.001
300	0.001	0.002	0.002	0.001	0.002	0.001	0.002
360	0.001	0.002	0.003	0.001	0.002	0.001	0.002
420	0.001	0.002	0.003	0.001	0.002	0.001	0.002
480	0.002	0.002	0.003	0.001	0.002	0.001	0.002
540	0.002	0.002	0.003	0.001	0.002	0.001	0.002
600	0.002	0.002	0.003	0.001	0.003	0.001	0.002
660	0.002	0.002	0.004	0.001	0.003	0.001	0.002
720	0.002	0.003	0.004	0.001	0.003	0.001	0.003

ALL Poll utant Name: PM2.5 Temperature: 90F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer

5	0.000	0.001	0.001	0.000	0.001	0.005	0.001
10	0.001	0.002	0.001	0.001	0.001	0.005	0.001
20	0.002	0.003	0.003	0.001	0.003	0.004	0.002
30	0.003	0.004	0.004	0.002	0.004	0.003	0.004
40	0.004	0.006	0.005	0.002	0.005	0.003	0.005
50	0.004	0.007	0.006	0.002	0.006	0.002	0.006
60	0.005	0.008	0.007	0.003	0.007	0.002	0.007
120	0.008	0.013	0.012	0.004	0.009	0.005	0.011
180	0.009	0.015	0.014	0.004	0.010	0.006	0.012
240	0.010	0.016	0.015	0.004	0.010	0.008	0.013
300	0.011	0.018	0.016	0.004	0.010	0.010	0.014
360	0.012	0.019	0.017	0.004	0.011	0.011	0.015
420	0.012	0.020	0.018	0.004	0.011	0.012	0.016
480	0.013	0.020	0.018	0.005	0.011	0.013	0.016
540	0.013	0.021	0.019	0.005	0.011	0.014	0.017
600	0.013	0.021	0.019	0.005	0.012	0.014	0.017
660	0.013	0.021	0.019	0.005	0.012	0.014	0.017
720	0.013	0.021	0.019	0.005	0.013	0.015	0.017

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

Time min	Pollutant Name: Methane				Temperature: 90F Relative Humidity:		
	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer
 Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

North Coast Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.375	0.449	0.098	0.065	0.002	0.012	1.000
%TRIP	0.336	0.401	0.186	0.062	0.000	0.015	1.000
%VEH	0.368	0.448	0.095	0.036	0.000	0.052	1.000

Title : North Coast Air Basin Avg Annual CYrs 2007 and 2032 Default Title_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:58:29
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : North Coast

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average North Coast Basin Average Basin

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Methane Temperature: 90F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_North Coast Basin_2008-10_2033-34_PM2-5_CH4_Summer							
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer
 Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 1: Running Exhaust Emissions (grams/mile;
 grams/minute-hour)

Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	3.351	8.918	0.000	0.000	0.688
1	0.822	0.922	0.825	6.562	3.340	5.041	1.132
2	0.822	0.922	0.825	6.562	3.340	5.041	1.132
3	0.785	0.881	0.796	6.562	3.340	5.041	1.096
4	0.718	0.807	0.743	6.562	3.340	5.041	1.031
5	0.657	0.741	0.695	6.562	3.340	5.041	0.973

Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	20.655	38.086	0.000	0.000	3.558
1	9.042	11.357	8.677	26.388	23.734	37.975	10.783
2	9.042	11.357	8.677	26.388	23.734	37.975	10.783
3	8.865	11.130	8.570	26.388	23.734	37.975	10.605
4	8.532	10.701	8.367	26.388	23.734	37.975	10.269
5	8.222	10.302	8.177	26.388	23.734	37.975	9.957

Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	5.222	78.377	0.000	0.000	3.685
1	0.439	0.724	1.141	23.122	30.800	0.799	1.640
2	0.439	0.724	1.141	23.122	30.800	0.799	1.640
3	0.433	0.712	1.131	23.122	30.800	0.799	1.631
4	0.420	0.689	1.111	23.122	30.800	0.799	1.615
5	0.408	0.668	1.092	23.122	30.800	0.799	1.600

Pollutant Name: Carbon Dioxide Temperature: 85F Relative Humidity:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	898.979	5095.515	0.000	0.000	294.170
1	1328.595	1608.835	2158.679	2700.730	2662.439	231.618	1557.195
2	1328.595	1608.835	2158.679	2700.730	2662.439	231.618	1557.195
3	1291.553	1563.897	2108.705	2700.730	2662.439	231.618	1518.125
4	1222.095	1479.635	2015.000	2700.730	2662.439	231.618	1444.866
5	1158.332	1402.281	1928.977	2700.730	2662.439	231.618	1377.613

Pol l utant Name: Sul fur Di oxi de

Temperature: 85F Rel ati ve Humi di ty:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.049	0.000	0.000	0.003
1	0.013	0.016	0.021	0.026	0.026	0.003	0.015
2	0.013	0.016	0.021	0.026	0.026	0.003	0.015
3	0.013	0.015	0.020	0.026	0.026	0.003	0.015
4	0.012	0.014	0.019	0.026	0.026	0.003	0.014
5	0.011	0.014	0.019	0.026	0.026	0.003	0.013

Pol l utant Name: PM10

Temperature: 85F Rel ati ve Humi di ty:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.062	1.206	0.000	0.000	0.055
1	0.063	0.108	0.111	1.626	0.855	0.061	0.150
2	0.063	0.108	0.111	1.626	0.855	0.061	0.150
3	0.061	0.103	0.107	1.626	0.855	0.061	0.146
4	0.055	0.095	0.098	1.626	0.855	0.061	0.140
5	0.051	0.087	0.091	1.626	0.855	0.061	0.134

Pol l utant Name: PM10 - Ti re Wear

Temperature: 85F Rel ati ve Humi di ty:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.023	0.008	0.004	0.009
2	0.008	0.008	0.009	0.023	0.008	0.004	0.009
3	0.008	0.008	0.009	0.023	0.008	0.004	0.009
4	0.008	0.008	0.009	0.023	0.008	0.004	0.009
5	0.008	0.008	0.009	0.023	0.008	0.004	0.009

Pol l utant Name: PM10 - Break Wear

Temperature: 85F Rel ati ve Humi di ty:

50%

Speed

Vehi cle Queui ng MPH	Emi ssi ons_SF LDA	Bay Area LDT	Basi n_2008-10_2033-34 PM10_ROG_Summer MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.020	0.013	0.006	0.013
2	0.013	0.013	0.013	0.020	0.013	0.006	0.013
3	0.013	0.013	0.013	0.020	0.013	0.006	0.013
4	0.013	0.013	0.013	0.020	0.013	0.006	0.013
5	0.013	0.013	0.013	0.020	0.013	0.006	0.013

50% Poll utant Name: Gasol ine - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.582	5.377	3.858	3.319	3.294	28.824	6.056
2	6.582	5.377	3.858	3.319	3.294	28.824	6.056
3	6.771	5.531	3.954	3.319	3.294	28.824	6.221
4	7.155	5.847	4.151	3.319	3.294	28.824	6.556
5	7.548	6.169	4.352	3.319	3.294	28.824	6.900

50% Poll utant Name: Di esel - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	27.923	29.002	19.621	4.553	3.759	0.000	9.704
2	27.923	29.002	19.621	4.553	3.759	0.000	9.704
3	27.923	29.002	19.621	4.553	3.759	0.000	9.704
4	27.923	29.002	19.621	4.553	3.759	0.000	9.704
5	27.923	29.002	19.621	4.553	3.759	0.000	9.704

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average San Francisco Basin Average Basin

Table 2: Start ing Emi ssi ons (grams/tri p)

Poll utant Name: Reacti ve Org Gases Temperature: 85F Rel ati ve Humi di ty:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.091	0.087	0.139	0.562	0.118	1.191	0.134
10	0.141	0.138	0.236	0.737	0.167	1.230	0.197
20	0.235	0.234	0.417	1.070	0.261	1.331	0.317
30	0.321	0.322	0.581	1.377	0.345	1.462	0.426
40	0.398	0.401	0.728	1.659	0.421	1.624	0.525
50	0.467	0.471	0.858	1.916	0.489	1.815	0.614
60	0.524	0.529	0.967	2.111	0.542	1.919	0.687
120	0.697	0.724	1.277	2.516	0.649	2.209	0.898
180	0.784	0.809	1.383	2.685	0.691	2.387	0.992
240	0.830	0.857	1.465	2.850	0.733	2.566	1.052
300	0.876	0.904	1.544	3.011	0.773	2.745	1.110
360	0.921	0.951	1.622	3.168	0.812	2.922	1.167
420	0.964	0.996	1.699	3.321	0.850	3.098	1.223
480	1.007	1.040	1.773	3.471	0.887	3.274	1.277
540	1.048	1.083	1.845	3.617	0.922	3.448	1.330
600	1.089	1.125	1.916	3.759	0.957	3.621	1.382
660	1.128	1.166	1.985	3.897	0.991	3.793	1.433
720	1.167	1.205	2.052	4.031	1.023	3.964	1.482

Pol lutant Name: Carbon Monoxi de Temperature: 85F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.761	0.807	1.444	7.111	1.232	5.735	1.281
10	1.137	1.262	2.428	9.098	1.802	5.390	1.843
20	1.852	2.127	4.288	12.875	2.876	4.812	2.912
30	2.519	2.930	6.003	16.391	3.864	4.382	3.906
40	3.136	3.673	7.574	19.645	4.764	4.102	4.825
50	3.705	4.355	9.000	22.637	5.577	3.970	5.669
60	4.225	4.976	10.282	25.367	6.303	3.987	6.438
120	6.684	8.154	14.976	36.204	8.797	7.479	9.893
180	8.604	10.206	16.689	38.983	9.272	9.766	11.882
240	9.143	10.817	17.566	41.601	9.731	11.836	12.621
300	9.640	11.382	18.391	44.059	10.174	13.677	13.308
360	10.096	11.903	19.164	46.357	10.600	15.290	13.942
420	10.511	12.378	19.884	48.496	11.010	16.674	14.523
480	10.885	12.807	20.551	50.474	11.404	17.830	15.052
540	11.217	13.192	21.165	52.291	11.782	18.757	15.528
600	11.509	13.531	21.727	53.949	12.143	19.455	15.951
660	11.759	13.825	22.236	55.447	12.488	19.924	16.322
720	11.969	14.074	22.693	56.784	12.817	20.165	16.640

Pol lutant Name: Oxi des of Ni trogen Temperature: 85F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.233	0.338	0.732	0.744	0.237	0.212	0.356
10	0.276	0.392	0.889	1.098	0.354	0.237	0.434
20	0.352	0.486	1.167	1.719	0.559	0.281	0.573
30	0.415	0.565	1.395	2.226	0.727	0.319	0.687

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer

40	0.465	0.627	1.575	2.618	0.856	0.350	0.776
50	0.501	0.673	1.705	2.896	0.948	0.375	0.841
60	0.524	0.703	1.785	3.059	1.001	0.393	0.881
120	0.545	0.736	1.850	3.075	1.007	0.394	0.910
180	0.550	0.743	1.850	3.062	1.003	0.386	0.914
240	0.546	0.738	1.838	3.042	0.997	0.375	0.908
300	0.540	0.729	1.820	3.016	0.989	0.361	0.898
360	0.532	0.719	1.796	2.983	0.979	0.345	0.886
420	0.522	0.705	1.767	2.944	0.967	0.326	0.871
480	0.510	0.689	1.732	2.898	0.953	0.305	0.853
540	0.496	0.670	1.691	2.846	0.936	0.281	0.832
600	0.481	0.648	1.644	2.788	0.918	0.254	0.808
660	0.463	0.624	1.592	2.722	0.898	0.224	0.781
720	0.444	0.597	1.533	2.651	0.876	0.192	0.752

ALL Pollutant Name: Carbon Dioxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.963	13.332	17.057	11.014	2.296	26.998	12.585
10	13.641	16.379	21.845	14.713	3.419	29.655	15.693
20	19.287	22.864	31.878	22.020	5.641	34.830	22.223
30	25.323	29.869	42.520	29.207	7.832	39.817	29.174
40	31.749	37.395	53.769	36.272	9.992	44.617	36.545
50	38.563	45.441	65.628	43.217	12.121	49.229	44.336
60	45.767	54.007	78.094	50.041	14.219	53.654	52.548
120	92.432	111.248	156.521	79.996	23.365	74.198	105.073
180	105.899	127.380	180.109	90.913	27.029	75.665	120.321
240	119.016	143.140	203.010	101.186	30.477	77.049	135.156
300	131.784	158.530	225.223	110.816	33.708	78.349	149.580
360	144.203	173.548	246.750	119.802	36.724	79.565	163.591
420	156.273	188.195	267.590	128.145	39.523	80.698	177.191
480	167.993	202.471	287.743	135.844	42.106	81.748	190.379
540	179.363	216.375	307.208	142.900	44.474	82.714	203.155
600	190.385	229.909	325.987	149.313	46.625	83.597	215.518
660	201.057	243.071	344.079	155.082	48.560	84.396	227.470
720	211.380	255.862	361.483	160.208	50.279	85.111	239.010

ALL Pollutant Name: Sulfur Dioxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.001	0.001	0.000	0.000	0.000
40	0.000	0.000	0.001	0.001	0.000	0.001	0.000
50	0.000	0.001	0.001	0.001	0.000	0.001	0.001
60	0.001	0.001	0.001	0.001	0.000	0.001	0.001
120	0.001	0.001	0.002	0.001	0.000	0.001	0.001
180	0.001	0.001	0.002	0.002	0.000	0.001	0.001
240	0.001	0.002	0.002	0.002	0.000	0.001	0.002
300	0.001	0.002	0.002	0.002	0.001	0.001	0.002
360	0.002	0.002	0.003	0.002	0.001	0.001	0.002
420	0.002	0.002	0.003	0.002	0.001	0.001	0.002

Vehicle	Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM10	ROG	Summer
480	0.002	0.002	0.003	0.002	0.001	0.001	0.001	0.002
540	0.002	0.002	0.003	0.002	0.001	0.001	0.001	0.002
600	0.002	0.002	0.004	0.002	0.001	0.001	0.001	0.002
660	0.002	0.003	0.004	0.002	0.001	0.001	0.001	0.002
720	0.002	0.003	0.004	0.003	0.001	0.001	0.001	0.003

ALL Pollutant Name: PM10 Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.000	0.015	0.001
10	0.001	0.002	0.002	0.001	0.000	0.014	0.002
20	0.002	0.004	0.003	0.002	0.001	0.011	0.003
30	0.003	0.006	0.005	0.003	0.001	0.008	0.004
40	0.004	0.007	0.006	0.003	0.001	0.006	0.005
50	0.005	0.009	0.007	0.004	0.001	0.005	0.006
60	0.006	0.010	0.008	0.004	0.001	0.004	0.007
120	0.009	0.015	0.012	0.006	0.002	0.010	0.011
180	0.009	0.016	0.013	0.006	0.002	0.016	0.012
240	0.010	0.017	0.014	0.007	0.002	0.021	0.012
300	0.010	0.017	0.014	0.007	0.002	0.026	0.013
360	0.011	0.018	0.015	0.007	0.002	0.030	0.014
420	0.011	0.019	0.016	0.008	0.002	0.033	0.014
480	0.012	0.019	0.016	0.008	0.003	0.036	0.015
540	0.012	0.020	0.017	0.008	0.003	0.038	0.015
600	0.012	0.020	0.017	0.008	0.003	0.039	0.015
660	0.012	0.021	0.017	0.009	0.003	0.040	0.016
720	0.013	0.021	0.018	0.009	0.003	0.040	0.016

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin Average Basin

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.095	0.083	0.039	0.019	0.027	0.224	0.081

Vehicle Queuing	Emissions_SF	Bay Area	Basin	2008-10	2033-34	PM10	ROG	Summer
10	0.176	0.154	0.073	0.036	0.049	0.415	0.151	
20	0.303	0.266	0.127	0.061	0.084	0.719	0.260	
30	0.393	0.347	0.167	0.080	0.108	0.939	0.338	
40	0.428	0.378	0.182	0.087	0.117	1.025	0.368	

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	85	0.251	0.231	0.102	0.014	0.002	0.500	0.235

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	85	0.251	0.231	0.102	0.014	0.002	0.500	0.235

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.021	0.019	0.008	0.001	0.001	0.040	0.019

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.123	0.116	0.056	0.008	0.001	0.247	0.117

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
 ALL

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.010	0.009	0.004	0.000	0.000	0.021	0.010

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: ALL Temperature: ALL Relative Humidity:

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.509	0.342	0.098	0.041	0.004	0.008	1.000
%TRIP	0.503	0.306	0.122	0.059	0.001	0.010	1.000
%VEH	0.537	0.327	0.081	0.022	0.001	0.032	1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	20.800	37.780	0.000	0.000	3.522
1	7.975	10.466	8.074	24.402	23.516	35.479	9.769
2	7.975	10.466	8.074	24.402	23.516	35.479	9.769
3	7.825	10.263	7.976	24.402	23.516	35.479	9.614
4	7.540	9.877	7.788	24.402	23.516	35.479	9.319
5	7.274	9.517	7.612	24.402	23.516	35.479	9.043

50% Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	5.140	79.381	0.000	0.000	3.687
1	0.390	0.668	1.071	21.762	30.443	0.817	1.524
2	0.390	0.668	1.071	21.762	30.443	0.817	1.524
3	0.384	0.657	1.061	21.762	30.443	0.817	1.516
4	0.372	0.636	1.043	21.762	30.443	0.817	1.502
5	0.362	0.616	1.025	21.762	30.443	0.817	1.488

50% Pollutant Name: Carbon Dioxide Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	904.971	5102.181	0.000	0.000	292.276
1	1326.634	1611.761	2160.723	2696.687	2658.353	237.445	1555.160
2	1326.634	1611.761	2160.723	2696.687	2658.353	237.445	1555.160
3	1289.673	1566.750	2110.812	2696.687	2658.353	237.445	1516.136
4	1220.369	1482.350	2017.224	2696.687	2658.353	237.445	1442.962
5	1156.747	1404.870	1931.310	2696.687	2658.353	237.445	1375.788

50% Pollutant Name: Sulfur Dioxide Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.049	0.000	0.000	0.003
1	0.013	0.016	0.021	0.026	0.026	0.003	0.015
2	0.013	0.016	0.021	0.026	0.026	0.003	0.015
3	0.013	0.015	0.020	0.026	0.026	0.003	0.015
4	0.012	0.014	0.019	0.026	0.026	0.003	0.014
5	0.011	0.014	0.019	0.026	0.026	0.003	0.013

50% Pollutant Name: PM10 Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer

0	0.000	0.000	0.060	1.127	0.000	0.000	0.051
1	0.063	0.112	0.117	1.485	0.845	0.056	0.145
2	0.063	0.112	0.117	1.485	0.845	0.056	0.145
3	0.060	0.107	0.112	1.485	0.845	0.056	0.142
4	0.055	0.098	0.103	1.485	0.845	0.056	0.135
5	0.050	0.090	0.095	1.485	0.845	0.056	0.129

50% Pollutant Name: PM10 - Tire Wear Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.023	0.008	0.004	0.009
2	0.008	0.008	0.009	0.023	0.008	0.004	0.009
3	0.008	0.008	0.009	0.023	0.008	0.004	0.009
4	0.008	0.008	0.009	0.023	0.008	0.004	0.009
5	0.008	0.008	0.009	0.023	0.008	0.004	0.009

50% Pollutant Name: PM10 - Break Wear Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.020	0.013	0.006	0.013
2	0.013	0.013	0.013	0.020	0.013	0.006	0.013
3	0.013	0.013	0.013	0.020	0.013	0.006	0.013
4	0.013	0.013	0.013	0.020	0.013	0.006	0.013
5	0.013	0.013	0.013	0.020	0.013	0.006	0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.602	5.376	3.861	3.336	3.305	28.660	6.073
2	6.602	5.376	3.861	3.336	3.305	28.660	6.073
3	6.791	5.531	3.957	3.336	3.305	28.660	6.238
4	7.175	5.846	4.153	3.336	3.305	28.660	6.575
5	7.569	6.168	4.354	3.336	3.305	28.660	6.919

50% Pollutant Name: Diesel - mi/gal Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	27.981	29.007	19.619	4.563	3.764	0.000	9.479
2	27.981	29.007	19.619	4.563	3.764	0.000	9.479

Vehicle Queuing	Emissions_SF	Bay Area	Basin	2008-10	2033-34	PM10	ROG	Summer
3	27.981	29.007	19.619	4.563	3.764	0.000	9.479	
4	27.981	29.007	19.619	4.563	3.764	0.000	9.479	
5	27.981	29.007	19.619	4.563	3.764	0.000	9.479	

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 2: Starting Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.078	0.078	0.125	0.487	0.119	1.111	0.118
10	0.123	0.125	0.215	0.656	0.170	1.162	0.176
20	0.208	0.215	0.385	0.974	0.265	1.282	0.287
30	0.285	0.296	0.538	1.267	0.352	1.427	0.388
40	0.354	0.369	0.676	1.533	0.430	1.596	0.479
50	0.416	0.435	0.798	1.774	0.499	1.789	0.561
60	0.467	0.489	0.901	1.958	0.553	1.900	0.628
120	0.626	0.673	1.203	2.338	0.662	2.196	0.827
180	0.705	0.753	1.303	2.493	0.705	2.369	0.914
240	0.747	0.798	1.380	2.645	0.747	2.543	0.969
300	0.788	0.842	1.456	2.793	0.788	2.717	1.022
360	0.828	0.885	1.529	2.937	0.828	2.889	1.075
420	0.868	0.927	1.601	3.077	0.867	3.060	1.126
480	0.906	0.968	1.672	3.214	0.904	3.229	1.176
540	0.943	1.008	1.741	3.347	0.940	3.398	1.225
600	0.980	1.047	1.808	3.477	0.976	3.564	1.273
660	1.015	1.085	1.873	3.603	1.010	3.730	1.319
720	1.050	1.122	1.937	3.725	1.043	3.895	1.365

Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.660	0.728	1.292	6.246	1.233	5.387	1.131
10	1.006	1.159	2.209	8.224	1.808	5.140	1.663
20	1.665	1.978	3.944	11.975	2.891	4.740	2.674

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer

30	2.279	2.740	5.545	15.453	3.886	4.466	3.613
40	2.849	3.444	7.014	18.658	4.793	4.317	4.481
50	3.374	4.091	8.349	21.590	5.612	4.294	5.279
60	3.854	4.680	9.551	24.249	6.343	4.397	6.004
120	6.098	7.658	13.968	34.397	8.850	7.892	9.214
180	7.889	9.630	15.618	36.831	9.325	10.031	11.083
240	8.388	10.212	16.459	39.136	9.784	11.977	11.769
300	8.848	10.749	17.245	41.312	10.228	13.712	12.406
360	9.268	11.242	17.978	43.359	10.655	15.236	12.992
420	9.648	11.691	18.657	45.278	11.066	16.550	13.529
480	9.989	12.095	19.281	47.068	11.461	17.653	14.016
540	10.291	12.454	19.852	48.729	11.840	18.545	14.454
600	10.553	12.770	20.368	50.262	12.203	19.226	14.842
660	10.775	13.041	20.830	51.665	12.551	19.696	15.180
720	10.958	13.267	21.238	52.940	12.882	19.956	15.469

ALL Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.220	0.326	0.736	0.711	0.244	0.205	0.344
10	0.258	0.375	0.882	1.052	0.364	0.231	0.417
20	0.326	0.462	1.140	1.651	0.576	0.278	0.545
30	0.382	0.534	1.353	2.140	0.748	0.317	0.650
40	0.426	0.591	1.520	2.518	0.881	0.350	0.733
50	0.459	0.634	1.642	2.786	0.975	0.375	0.793
60	0.480	0.661	1.718	2.943	1.031	0.393	0.830
120	0.500	0.694	1.785	2.958	1.036	0.394	0.860
180	0.505	0.701	1.786	2.946	1.032	0.387	0.864
240	0.501	0.696	1.774	2.927	1.026	0.376	0.857
300	0.495	0.688	1.756	2.902	1.018	0.364	0.849
360	0.488	0.678	1.733	2.871	1.007	0.348	0.837
420	0.479	0.665	1.704	2.834	0.995	0.330	0.822
480	0.468	0.649	1.669	2.791	0.980	0.310	0.805
540	0.455	0.631	1.628	2.742	0.964	0.287	0.785
600	0.441	0.611	1.582	2.686	0.945	0.261	0.762
660	0.425	0.587	1.530	2.624	0.925	0.233	0.737
720	0.407	0.562	1.472	2.556	0.902	0.203	0.709

ALL Pollutant Name: Carbon Dioxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	11.023	13.416	17.380	9.702	2.336	25.396	12.589
10	13.551	16.359	21.962	13.278	3.506	28.003	15.557
20	18.926	22.656	31.622	20.347	5.823	33.083	21.833
30	24.725	29.502	41.947	27.304	8.107	37.985	28.563
40	30.947	36.896	52.937	34.149	10.358	42.709	35.746
50	37.592	44.838	64.590	40.882	12.578	47.255	43.383
60	44.661	53.328	76.909	47.503	14.765	51.623	51.474
120	91.732	111.067	156.370	76.513	24.300	71.831	104.432
180	105.020	127.115	179.753	87.384	28.137	73.634	119.541
240	117.997	142.820	202.511	97.614	31.748	75.333	134.274
300	130.665	158.184	224.642	107.203	35.132	76.929	148.632
360	143.023	173.205	246.148	116.151	38.290	78.421	162.613

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer

420	155.071	187.885	267.027	124.459	41.221	79.809	176.219
480	166.809	202.222	287.280	132.125	43.927	81.095	189.450
540	178.238	216.217	306.907	139.151	46.405	82.276	202.305
600	189.357	229.870	325.908	145.536	48.658	83.354	214.783
660	200.166	243.180	344.283	151.280	50.684	84.329	226.887
720	210.665	256.149	362.031	156.383	52.485	85.200	238.614

ALL Pollutant Name: Sul fur Di oxide Temperature: 85F Rel ative Humi di ty:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.001	0.001	0.000	0.000	0.000
40	0.000	0.000	0.001	0.001	0.000	0.001	0.000
50	0.000	0.001	0.001	0.001	0.000	0.001	0.001
60	0.001	0.001	0.001	0.001	0.000	0.001	0.001
120	0.001	0.001	0.002	0.001	0.000	0.001	0.001
180	0.001	0.001	0.002	0.001	0.000	0.001	0.001
240	0.001	0.002	0.002	0.002	0.000	0.001	0.001
300	0.001	0.002	0.002	0.002	0.001	0.001	0.002
360	0.002	0.002	0.003	0.002	0.001	0.001	0.002
420	0.002	0.002	0.003	0.002	0.001	0.001	0.002
480	0.002	0.002	0.003	0.002	0.001	0.001	0.002
540	0.002	0.002	0.003	0.002	0.001	0.001	0.002
600	0.002	0.002	0.003	0.002	0.001	0.001	0.002
660	0.002	0.003	0.004	0.002	0.001	0.001	0.002
720	0.002	0.003	0.004	0.002	0.001	0.001	0.003

ALL Pollutant Name: PM10 Temperature: 85F Rel ative Humi di ty:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.000	0.014	0.001
10	0.001	0.002	0.002	0.001	0.000	0.013	0.002
20	0.002	0.004	0.003	0.002	0.001	0.010	0.003
30	0.003	0.006	0.005	0.003	0.001	0.008	0.004
40	0.004	0.007	0.006	0.003	0.001	0.006	0.005
50	0.005	0.009	0.008	0.004	0.001	0.005	0.007
60	0.006	0.010	0.009	0.004	0.002	0.004	0.008
120	0.009	0.015	0.013	0.006	0.002	0.010	0.011
180	0.009	0.016	0.014	0.006	0.002	0.015	0.012
240	0.010	0.017	0.014	0.007	0.002	0.020	0.013
300	0.010	0.018	0.015	0.007	0.002	0.024	0.013
360	0.011	0.019	0.016	0.007	0.003	0.028	0.014
420	0.011	0.020	0.016	0.007	0.003	0.031	0.014
480	0.012	0.020	0.017	0.008	0.003	0.033	0.015
540	0.012	0.021	0.017	0.008	0.003	0.035	0.015
600	0.012	0.021	0.018	0.008	0.003	0.037	0.016
660	0.013	0.022	0.018	0.008	0.003	0.037	0.016
720	0.013	0.022	0.018	0.009	0.003	0.038	0.016

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.090	0.082	0.039	0.017	0.027	0.204	0.078
10	0.167	0.152	0.072	0.032	0.049	0.379	0.145
20	0.287	0.262	0.125	0.055	0.084	0.657	0.250
30	0.373	0.341	0.163	0.071	0.108	0.859	0.324
40	0.405	0.372	0.179	0.078	0.117	0.938	0.353

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
 ALL

Temp

Vehi cl e Queui ng degF	Emi ssi ons_SF LDA	Bay Area LDT	Basin_2008-10_2033-34 PM10_ROG_Summer MDT	HDT	UBUS	MCY	ALL
85	0.233	0.223	0.101	0.013	0.002	0.483	0.222

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2008/04/14 12:42:33
Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
Season : Summer
Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.019	0.018	0.008	0.001	0.001	0.040	0.018

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2008/04/14 12:42:33
Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
Season : Summer
Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

85 0.114 0.113 0.056 0.007 0.001 0.237 0.110

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Mul ti -Day Resti ng Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reacti ve Org Gases Temperature: ALL Rel ati ve Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.010	0.009	0.004	0.000	0.000	0.020	0.009

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fracti ons

Pol l utant Name: Temperature: ALL Rel ati ve Humi di ty:
 ALL

LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer
 %VMT 0.512 0.340 0.096 0.040 0.004 0.008 1.000
 %TRIP 0.503 0.306 0.122 0.059 0.001 0.010 1.000
 %VEH 0.537 0.326 0.081 0.022 0.001 0.032 1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.031	0.483	0.244	0.159	0.171	0.105	0.211
2	0.035	0.251	0.127	0.087	0.092	0.142	0.120
3	0.040	0.175	0.090	0.063	0.066	0.160	0.093
4	0.043	0.139	0.072	0.052	0.053	0.171	0.080
5	0.045	0.118	0.062	0.045	0.045	0.178	0.073
10	0.050	0.078	0.043	0.031	0.030	0.195	0.059
15	0.051	0.068	0.038	0.027	0.025	0.201	0.056
20	0.052	0.065	0.037	0.025	0.022	0.206	0.055
25	0.052	0.064	0.038	0.024	0.021	0.209	0.055
30	0.051	0.063	0.037	0.023	0.021	0.205	0.054
35	0.051	0.062	0.036	0.023	0.020	0.202	0.053
40	0.050	0.060	0.035	0.023	0.020	0.199	0.052
45	0.049	0.059	0.035	0.022	0.020	0.196	0.051
50	0.048	0.058	0.034	0.022	0.020	0.190	0.050
55	0.046	0.057	0.033	0.022	0.019	0.183	0.049
60	0.045	0.056	0.033	0.021	0.019	0.177	0.047

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

Year: 2010 -- Model Years 1966 to 2010 In clusi ve -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Franci sco Basi n Average Basi n
 Average

Table 1: Runni ng Exhaust Emi ssi ons (grams/mi le;
 grams/i dl e-hour)

Pol l utant Name: Reacti ve Org Gases Temperature: 85F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	3.372	8.334	0.000	0.000	0.654
1	0.602	0.755	0.711	5.685	3.315	4.926	0.913
2	0.602	0.755	0.711	5.685	3.315	4.926	0.913
3	0.575	0.722	0.685	5.685	3.315	4.926	0.885
4	0.524	0.660	0.638	5.685	3.315	4.926	0.833
5	0.479	0.605	0.596	5.685	3.315	4.926	0.788

Pol l utant Name: Carbon Monoxi de Temperature: 85F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	20.885	37.485	0.000	0.000	3.484
1	6.962	9.618	7.540	22.367	23.316	33.350	8.806
2	6.962	9.618	7.540	22.367	23.316	33.350	8.806
3	6.836	9.436	7.449	22.367	23.316	33.350	8.671
4	6.598	9.091	7.275	22.367	23.316	33.350	8.415
5	6.376	8.769	7.112	22.367	23.316	33.350	8.176

Pol l utant Name: Oxi des of Ni trogen Temperature: 85F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	5.085	80.394	0.000	0.000	3.698
1	0.345	0.616	0.994	19.874	30.109	0.832	1.394
2	0.345	0.616	0.994	19.874	30.109	0.832	1.394
3	0.340	0.606	0.985	19.874	30.109	0.832	1.387
4	0.330	0.586	0.968	19.874	30.109	0.832	1.374
5	0.321	0.568	0.952	19.874	30.109	0.832	1.361

Pol l utant Name: Carbon Di oxide Temperature: 85F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	910.643	5112.177	0.000	0.000	290.992
1	1324.925	1614.742	2162.022	2695.708	2654.583	242.441	1553.546

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer

2	1324.925	1614.742	2162.022	2695.708	2654.583	242.441	1553.546
3	1288.038	1569.658	2112.175	2695.708	2654.583	242.441	1514.564
4	1218.871	1485.120	2018.706	2695.708	2654.583	242.441	1441.470
5	1155.375	1407.514	1932.901	2695.708	2654.583	242.441	1374.369

50% Pollutant Name: Sul fur Di oxi de Temperature: 85F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.049	0.000	0.000	0.003
1	0.013	0.016	0.021	0.026	0.026	0.003	0.015
2	0.013	0.016	0.021	0.026	0.026	0.003	0.015
3	0.012	0.015	0.020	0.026	0.026	0.003	0.015
4	0.012	0.014	0.020	0.026	0.026	0.003	0.014
5	0.011	0.014	0.019	0.026	0.026	0.003	0.013

50% Pollutant Name: PM10 Temperature: 85F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.058	1.052	0.000	0.000	0.048
1	0.063	0.116	0.122	1.335	0.836	0.051	0.140
2	0.063	0.116	0.122	1.335	0.836	0.051	0.140
3	0.060	0.111	0.117	1.335	0.836	0.051	0.137
4	0.055	0.101	0.108	1.335	0.836	0.051	0.130
5	0.050	0.093	0.100	1.335	0.836	0.051	0.124

50% Pollutant Name: PM10 - Ti re Wear Temperature: 85F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.023	0.008	0.004	0.009
2	0.008	0.008	0.009	0.023	0.008	0.004	0.009
3	0.008	0.008	0.009	0.023	0.008	0.004	0.009
4	0.008	0.008	0.009	0.023	0.008	0.004	0.009
5	0.008	0.008	0.009	0.023	0.008	0.004	0.009

50% Pollutant Name: PM10 - Break Wear Temperature: 85F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.020	0.013	0.006	0.013
2	0.013	0.013	0.013	0.020	0.013	0.006	0.013
3	0.013	0.013	0.013	0.020	0.013	0.006	0.013
4	0.013	0.013	0.013	0.020	0.013	0.006	0.013

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer
 5 0.013 0.013 0.013 0.020 0.013 0.006 0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.619	5.376	3.863	3.352	3.314	28.522	6.089
2	6.619	5.376	3.863	3.352	3.314	28.522	6.089
3	6.808	5.530	3.960	3.352	3.314	28.522	6.255
4	7.194	5.845	4.155	3.352	3.314	28.522	6.592
5	7.588	6.167	4.356	3.352	3.314	28.522	6.937

50% Pollutant Name: Diesel - mi/gal Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.024	29.005	19.617	4.566	3.769	0.000	9.248
2	28.024	29.005	19.617	4.566	3.769	0.000	9.248
3	28.024	29.005	19.617	4.566	3.769	0.000	9.248
4	28.024	29.005	19.617	4.566	3.769	0.000	9.248
5	28.024	29.005	19.617	4.566	3.769	0.000	9.248

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average San Francisco Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.066	0.069	0.112	0.425	0.119	1.038	0.103
10	0.106	0.113	0.197	0.587	0.172	1.100	0.157

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

20	0.181	0.196	0.356	0.890	0.269	1.238	0.259
30	0.250	0.271	0.501	1.168	0.358	1.395	0.352
40	0.312	0.339	0.630	1.419	0.438	1.572	0.436
50	0.367	0.400	0.745	1.644	0.508	1.768	0.512
60	0.413	0.451	0.843	1.818	0.563	1.884	0.574
120	0.559	0.625	1.137	2.174	0.675	2.186	0.760
180	0.630	0.700	1.232	2.317	0.719	2.354	0.840
240	0.667	0.741	1.305	2.456	0.762	2.525	0.890
300	0.704	0.782	1.376	2.592	0.803	2.693	0.940
360	0.740	0.822	1.446	2.725	0.844	2.861	0.988
420	0.775	0.861	1.515	2.854	0.883	3.027	1.035
480	0.809	0.899	1.582	2.979	0.921	3.191	1.081
540	0.842	0.937	1.647	3.101	0.958	3.354	1.126
600	0.875	0.973	1.711	3.220	0.994	3.516	1.170
660	0.907	1.009	1.773	3.335	1.029	3.676	1.212
720	0.938	1.043	1.833	3.446	1.063	3.834	1.254

ALL Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.560	0.653	1.155	5.485	1.235	5.071	0.992
10	0.879	1.061	2.014	7.428	1.815	4.913	1.495
20	1.487	1.837	3.640	11.106	2.908	4.677	2.450
30	2.053	2.558	5.142	14.506	3.913	4.546	3.337
40	2.579	3.225	6.521	17.628	4.828	4.518	4.156
50	3.063	3.838	7.776	20.472	5.655	4.595	4.908
60	3.505	4.397	8.908	23.038	6.393	4.776	5.592
120	5.546	7.185	13.082	32.506	8.916	8.277	8.570
180	7.205	9.074	14.672	34.637	9.391	10.280	10.321
240	7.663	9.626	15.479	36.666	9.851	12.114	10.955
300	8.083	10.135	16.231	38.592	10.295	13.752	11.543
360	8.467	10.601	16.927	40.415	10.724	15.196	12.084
420	8.813	11.023	17.569	42.136	11.136	16.446	12.578
480	9.121	11.402	18.155	43.755	11.533	17.501	13.026
540	9.392	11.738	18.687	45.271	11.914	18.361	13.427
600	9.626	12.030	19.163	46.684	12.279	19.027	13.782
660	9.823	12.280	19.584	47.995	12.628	19.498	14.089
720	9.982	12.486	19.949	49.203	12.962	19.775	14.351

ALL Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.206	0.312	0.736	0.676	0.250	0.197	0.330
10	0.239	0.357	0.872	1.002	0.374	0.225	0.397
20	0.299	0.437	1.112	1.576	0.592	0.274	0.515
30	0.349	0.503	1.310	2.045	0.769	0.316	0.612
40	0.388	0.556	1.465	2.407	0.906	0.350	0.689
50	0.417	0.595	1.579	2.663	1.003	0.376	0.745
60	0.436	0.620	1.651	2.813	1.059	0.394	0.779
120	0.455	0.652	1.721	2.828	1.065	0.395	0.808
180	0.460	0.659	1.722	2.816	1.061	0.388	0.812
240	0.456	0.654	1.710	2.799	1.054	0.378	0.806
300	0.451	0.646	1.693	2.775	1.046	0.366	0.798

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

360	0.445	0.637	1.670	2.746	1.035	0.351	0.787
420	0.436	0.625	1.641	2.711	1.023	0.334	0.773
480	0.426	0.610	1.607	2.670	1.008	0.315	0.757
540	0.415	0.593	1.567	2.624	0.991	0.293	0.738
600	0.401	0.573	1.521	2.571	0.972	0.269	0.716
660	0.386	0.551	1.469	2.513	0.951	0.242	0.692
720	0.370	0.527	1.412	2.449	0.927	0.213	0.665

ALL Pollutant Name: Carbon Di oxide Temperature: 85F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	11.061	13.502	17.654	8.647	2.372	23.908	12.593
10	13.450	16.346	22.052	12.119	3.585	26.467	15.431
20	18.569	22.465	31.383	18.986	5.986	31.458	21.471
30	24.145	29.159	41.427	25.747	8.355	36.280	27.996
40	30.176	36.428	52.185	32.405	10.690	40.932	35.005
50	36.662	44.272	63.656	38.958	12.992	45.415	42.499
60	43.605	52.692	75.841	45.406	15.262	49.729	50.478
120	91.057	110.911	156.205	73.613	25.150	69.619	103.842
180	104.180	126.879	179.408	84.426	29.145	71.731	118.823
240	117.031	142.533	202.038	94.602	32.904	73.720	133.462
300	129.609	157.872	224.096	104.140	36.428	75.588	147.758
360	141.913	172.897	245.582	113.041	39.716	77.334	161.713
420	153.945	187.608	266.495	121.304	42.768	78.957	175.326
480	165.704	202.004	286.836	128.930	45.585	80.459	188.597
540	177.190	216.086	306.604	135.917	48.166	81.839	201.525
600	188.403	229.854	325.800	142.268	50.511	83.097	214.112
660	199.344	243.307	344.424	147.981	52.621	84.233	226.357
720	210.011	256.446	362.475	153.056	54.495	85.247	238.259

ALL Pollutant Name: Sul fur Di oxide Temperature: 85F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.001	0.000	0.000	0.000
40	0.000	0.000	0.001	0.001	0.000	0.001	0.000
50	0.000	0.000	0.001	0.001	0.000	0.001	0.000
60	0.000	0.001	0.001	0.001	0.000	0.001	0.001
120	0.001	0.001	0.002	0.001	0.000	0.001	0.001
180	0.001	0.001	0.002	0.001	0.000	0.001	0.001
240	0.001	0.002	0.002	0.002	0.000	0.001	0.001
300	0.001	0.002	0.002	0.002	0.001	0.001	0.002
360	0.002	0.002	0.003	0.002	0.001	0.001	0.002
420	0.002	0.002	0.003	0.002	0.001	0.001	0.002
480	0.002	0.002	0.003	0.002	0.001	0.001	0.002
540	0.002	0.002	0.003	0.002	0.001	0.001	0.002
600	0.002	0.002	0.003	0.002	0.001	0.001	0.002
660	0.002	0.003	0.004	0.002	0.001	0.001	0.002
720	0.002	0.003	0.004	0.002	0.001	0.001	0.003

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

ALL Poll utant Name: PM10 Temperature: 85F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.000	0.013	0.001
10	0.001	0.002	0.002	0.001	0.000	0.012	0.002
20	0.002	0.004	0.004	0.002	0.001	0.009	0.003
30	0.003	0.006	0.005	0.003	0.001	0.007	0.004
40	0.004	0.008	0.007	0.003	0.001	0.006	0.006
50	0.005	0.009	0.008	0.004	0.001	0.004	0.007
60	0.006	0.011	0.009	0.004	0.002	0.004	0.008
120	0.009	0.016	0.013	0.006	0.002	0.009	0.011
180	0.009	0.017	0.014	0.006	0.002	0.014	0.012
240	0.010	0.018	0.015	0.006	0.002	0.019	0.013
300	0.011	0.019	0.016	0.007	0.003	0.023	0.014
360	0.011	0.020	0.017	0.007	0.003	0.026	0.014
420	0.011	0.021	0.017	0.007	0.003	0.029	0.015
480	0.012	0.021	0.018	0.007	0.003	0.031	0.015
540	0.012	0.022	0.018	0.008	0.003	0.033	0.016
600	0.012	0.022	0.019	0.008	0.003	0.034	0.016
660	0.013	0.023	0.019	0.008	0.003	0.035	0.017
720	0.013	0.023	0.019	0.008	0.003	0.035	0.017

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
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 Run Date : 2008/04/14 12:42:33
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
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 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average San Francisco Basin Average Basin

Table 4: Hot Soak Emi ssi ons (grams/trip)

ALL Poll utant Name: Reactive Org Gases Temperature: 85F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.085	0.081	0.038	0.015	0.027	0.188	0.075
10	0.158	0.150	0.071	0.028	0.049	0.350	0.139
20	0.271	0.259	0.124	0.049	0.084	0.608	0.240
30	0.352	0.336	0.162	0.064	0.109	0.797	0.311
40	0.382	0.366	0.177	0.070	0.118	0.871	0.338

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer

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 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.215	0.215	0.100	0.012	0.002	0.470	0.209

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 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.018	0.017	0.008	0.001	0.001	0.040	0.017

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

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 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.105	0.109	0.056	0.007	0.001	0.231	0.104

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.009	0.009	0.004	0.000	0.000	0.021	0.009

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.515	0.338	0.095	0.040	0.004	0.008	1.000
%TRIP	0.503	0.306	0.122	0.058	0.001	0.010	1.000
%VEH	0.537	0.326	0.081	0.022	0.001	0.032	1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.027	0.491	0.252	0.165	0.182	0.081	0.212
2	0.030	0.253	0.131	0.089	0.098	0.118	0.119

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer

3	0.035	0.176	0.092	0.064	0.070	0.137	0.090
4	0.038	0.140	0.074	0.052	0.056	0.148	0.077
5	0.040	0.118	0.063	0.045	0.047	0.155	0.070
10	0.044	0.077	0.043	0.030	0.031	0.171	0.056
15	0.045	0.066	0.039	0.026	0.025	0.177	0.052
20	0.046	0.063	0.037	0.024	0.023	0.180	0.051
25	0.046	0.062	0.037	0.023	0.021	0.182	0.051
30	0.046	0.060	0.036	0.022	0.021	0.179	0.050
35	0.045	0.059	0.036	0.022	0.021	0.176	0.049
40	0.044	0.058	0.035	0.022	0.020	0.173	0.048
45	0.044	0.057	0.034	0.021	0.020	0.171	0.047
50	0.043	0.056	0.034	0.021	0.020	0.166	0.046
55	0.041	0.054	0.033	0.021	0.020	0.160	0.045
60	0.040	0.053	0.032	0.020	0.019	0.155	0.044

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 1: Running Exhaust Emissions (grams/mile;

grams/minute-hour)

Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	3.133	6.233	0.000	0.000	0.512
1	0.067	0.123	0.167	1.138	1.616	4.714	0.179
2	0.067	0.123	0.167	1.138	1.616	4.714	0.179
3	0.063	0.116	0.159	1.138	1.616	4.714	0.174
4	0.057	0.104	0.144	1.138	1.616	4.714	0.165
5	0.051	0.094	0.132	1.138	1.616	4.714	0.158

Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	19.833	35.388	0.000	0.000	3.087
1	1.214	2.009	2.558	4.850	10.475	23.210	1.952
2	1.214	2.009	2.558	4.850	10.475	23.210	1.952
3	1.202	1.989	2.536	4.850	10.475	23.210	1.937

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

4	1. 179	1. 950	2. 492	4. 850	10. 475	23. 210	1. 908
5	1. 157	1. 912	2. 449	4. 850	10. 475	23. 210	1. 879

50% Pol l utant Name: Oxi des of Ni trogen Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0. 000	0. 000	4. 514	85. 116	0. 000	0. 000	3. 576
1	0. 058	0. 109	0. 210	3. 353	17. 720	0. 920	0. 282
2	0. 058	0. 109	0. 210	3. 353	17. 720	0. 920	0. 282
3	0. 057	0. 107	0. 208	3. 353	17. 720	0. 920	0. 280
4	0. 055	0. 104	0. 205	3. 353	17. 720	0. 920	0. 278
5	0. 054	0. 101	0. 201	3. 353	17. 720	0. 920	0. 276

50% Pol l utant Name: Carbon Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0. 000	0. 000	914. 191	5080. 084	0. 000	0. 000	270. 912
1	1315. 524	1648. 227	2182. 853	2625. 450	2469. 849	266. 367	1548. 716
2	1315. 524	1648. 227	2182. 853	2625. 450	2469. 849	266. 367	1548. 716
3	1279. 005	1602. 307	2132. 819	2625. 450	2469. 849	266. 367	1509. 634
4	1210. 528	1516. 202	2039. 001	2625. 450	2469. 849	266. 367	1436. 351
5	1147. 666	1437. 157	1952. 876	2625. 450	2469. 849	266. 367	1369. 077

50% Pol l utant Name: Sul fur Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0. 000	0. 000	0. 009	0. 049	0. 000	0. 000	0. 003
1	0. 013	0. 016	0. 021	0. 025	0. 024	0. 003	0. 015
2	0. 013	0. 016	0. 021	0. 025	0. 024	0. 003	0. 015
3	0. 012	0. 015	0. 021	0. 025	0. 024	0. 003	0. 015
4	0. 012	0. 015	0. 020	0. 025	0. 024	0. 003	0. 014
5	0. 011	0. 014	0. 019	0. 025	0. 024	0. 003	0. 013

50% Pol l utant Name: PM10 Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0. 000	0. 000	0. 046	0. 397	0. 000	0. 000	0. 019
1	0. 066	0. 140	0. 159	0. 197	0. 553	0. 030	0. 105
2	0. 066	0. 140	0. 159	0. 197	0. 553	0. 030	0. 105
3	0. 063	0. 133	0. 152	0. 197	0. 553	0. 030	0. 101
4	0. 057	0. 121	0. 139	0. 197	0. 553	0. 030	0. 093
5	0. 052	0. 110	0. 128	0. 197	0. 553	0. 030	0. 085

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

50% Pol lutant Name: PM10 - Tire Wear Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.022	0.009	0.004	0.009
2	0.008	0.008	0.009	0.022	0.009	0.004	0.009
3	0.008	0.008	0.009	0.022	0.009	0.004	0.009
4	0.008	0.008	0.009	0.022	0.009	0.004	0.009
5	0.008	0.008	0.009	0.022	0.009	0.004	0.009

50% Pol lutant Name: PM10 - Break Wear Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.019	0.013	0.006	0.013
2	0.013	0.013	0.013	0.019	0.013	0.006	0.013
3	0.013	0.013	0.013	0.019	0.013	0.006	0.013
4	0.013	0.013	0.013	0.019	0.013	0.006	0.013
5	0.013	0.013	0.013	0.019	0.013	0.006	0.013

50% Pol lutant Name: Gasol i ne - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.724	5.361	3.876	3.513	3.484	27.865	6.161
2	6.724	5.361	3.876	3.513	3.484	27.865	6.161
3	6.916	5.515	3.972	3.513	3.484	27.865	6.328
4	7.307	5.827	4.167	3.513	3.484	27.865	6.668
5	7.707	6.148	4.367	3.513	3.484	27.866	7.017

50% Pol lutant Name: Di esel - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.461	4.711	4.103	0.000	6.750
2	29.156	29.156	19.461	4.711	4.103	0.000	6.750
3	29.156	29.156	19.461	4.711	4.103	0.000	6.750
4	29.156	29.156	19.461	4.711	4.103	0.000	6.750
5	29.156	29.156	19.461	4.711	4.103	0.000	6.750

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 2: Starting Emi ssi ons (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.003	0.006	0.023	0.044	0.081	0.583	0.015
10	0.007	0.012	0.046	0.085	0.157	0.721	0.025
20	0.013	0.024	0.091	0.161	0.298	0.987	0.044
30	0.018	0.035	0.133	0.228	0.422	1.238	0.062
40	0.024	0.045	0.174	0.287	0.530	1.474	0.078
50	0.029	0.055	0.213	0.336	0.622	1.694	0.094
60	0.034	0.064	0.250	0.377	0.697	1.856	0.107
120	0.055	0.106	0.429	0.456	0.843	2.214	0.161
180	0.063	0.121	0.463	0.484	0.895	2.353	0.177
240	0.067	0.128	0.492	0.511	0.945	2.502	0.188
300	0.071	0.136	0.522	0.537	0.993	2.648	0.199
360	0.075	0.143	0.551	0.563	1.040	2.790	0.209
420	0.078	0.151	0.580	0.587	1.085	2.930	0.220
480	0.082	0.158	0.609	0.610	1.128	3.067	0.230
540	0.086	0.166	0.638	0.633	1.170	3.200	0.241
600	0.090	0.173	0.667	0.655	1.210	3.331	0.251
660	0.093	0.180	0.695	0.675	1.248	3.458	0.261
720	0.097	0.187	0.724	0.695	1.285	3.583	0.271

ALL Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.047	0.083	0.304	0.624	0.717	2.953	0.151
10	0.092	0.165	0.601	1.223	1.405	3.428	0.275
20	0.180	0.322	1.177	2.345	2.694	4.345	0.512
30	0.263	0.471	1.726	3.365	3.866	5.217	0.734
40	0.342	0.612	2.248	4.284	4.921	6.046	0.943
50	0.416	0.745	2.745	5.101	5.860	6.831	1.137
60	0.487	0.870	3.215	5.817	6.683	7.571	1.317
120	0.788	1.412	5.245	7.909	9.087	11.192	2.041
180	1.111	1.975	6.141	8.140	9.352	12.285	2.510
240	1.207	2.144	6.697	8.379	9.627	13.365	2.703

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer

300	1.292	2.293	7.185	8.626	9.910	14.360	2.875
360	1.365	2.422	7.605	8.880	10.202	15.272	3.027
420	1.427	2.531	7.957	9.141	10.503	16.098	3.158
480	1.478	2.621	8.242	9.411	10.812	16.840	3.269
540	1.517	2.690	8.459	9.688	11.130	17.498	3.359
600	1.545	2.740	8.608	9.972	11.457	18.072	3.429
660	1.561	2.770	8.689	10.264	11.793	18.561	3.477
720	1.566	2.780	8.703	10.564	12.137	18.965	3.506

ALL Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.029	0.065	0.531	0.178	0.392	0.148	0.112
10	0.031	0.069	0.553	0.269	0.590	0.186	0.123
20	0.034	0.076	0.592	0.427	0.939	0.254	0.141
30	0.037	0.081	0.626	0.557	1.222	0.310	0.156
40	0.039	0.086	0.656	0.656	1.442	0.354	0.169
50	0.041	0.090	0.681	0.727	1.597	0.386	0.178
60	0.042	0.093	0.701	0.768	1.687	0.406	0.185
120	0.045	0.101	0.768	0.772	1.696	0.407	0.198
180	0.046	0.102	0.768	0.770	1.690	0.404	0.198
240	0.046	0.101	0.762	0.765	1.681	0.397	0.197
300	0.045	0.100	0.752	0.759	1.668	0.390	0.194
360	0.044	0.098	0.739	0.752	1.652	0.380	0.191
420	0.043	0.096	0.721	0.743	1.632	0.369	0.187
480	0.042	0.093	0.699	0.733	1.610	0.357	0.182
540	0.041	0.090	0.673	0.721	1.584	0.342	0.177
600	0.039	0.086	0.643	0.708	1.554	0.326	0.170
660	0.037	0.082	0.610	0.693	1.522	0.309	0.163
720	0.035	0.077	0.572	0.677	1.486	0.290	0.154

ALL Pollutant Name: Carbon Dioxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.277	15.416	21.663	2.807	2.191	13.101	13.845
10	13.748	17.292	24.370	5.598	4.370	15.292	15.674
20	17.195	21.678	30.668	11.135	8.692	19.594	19.885
30	21.316	26.907	38.144	16.609	12.965	23.790	24.832
40	26.111	32.979	46.799	22.021	17.190	27.880	30.517
50	31.579	39.894	56.633	27.370	21.366	31.864	36.939
60	37.721	47.653	67.646	32.658	25.494	35.741	44.098
120	88.187	111.158	157.210	55.546	43.360	53.147	101.410
180	100.064	126.160	178.500	65.623	51.227	57.416	115.213
240	111.930	141.142	199.744	75.106	58.629	61.434	128.962
300	123.786	156.102	220.943	83.994	65.567	65.202	142.656
360	135.631	171.042	242.096	92.287	72.041	68.719	156.297
420	147.465	185.962	263.203	99.985	78.050	71.986	169.884
480	159.288	200.861	284.265	107.088	83.595	75.002	183.416
540	171.100	215.739	305.280	113.597	88.676	77.767	196.895
600	182.902	230.596	326.250	119.511	93.292	80.282	210.320
660	194.692	245.433	347.174	124.830	97.444	82.546	223.690
720	206.472	260.249	368.052	129.554	101.132	84.560	237.007

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

ALL Pol l utant Name: Sul fur Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.001	0.000	0.000	0.000	0.000
60	0.000	0.000	0.001	0.000	0.000	0.001	0.000
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.001	0.001	0.001
240	0.001	0.001	0.002	0.001	0.001	0.001	0.001
300	0.001	0.002	0.002	0.001	0.001	0.001	0.001
360	0.001	0.002	0.002	0.001	0.001	0.001	0.002
420	0.001	0.002	0.003	0.001	0.001	0.001	0.002
480	0.002	0.002	0.003	0.001	0.001	0.001	0.002
540	0.002	0.002	0.003	0.001	0.001	0.001	0.002
600	0.002	0.002	0.003	0.001	0.001	0.001	0.002
660	0.002	0.002	0.003	0.001	0.001	0.001	0.002
720	0.002	0.003	0.004	0.001	0.001	0.001	0.002

ALL Pol l utant Name: PM10 Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.001	0.001	0.000	0.000	0.007	0.001
10	0.001	0.002	0.002	0.001	0.001	0.006	0.001
20	0.002	0.004	0.004	0.001	0.001	0.005	0.003
30	0.003	0.006	0.005	0.002	0.002	0.004	0.004
40	0.003	0.007	0.007	0.003	0.002	0.003	0.005
50	0.004	0.009	0.009	0.003	0.003	0.003	0.006
60	0.005	0.010	0.010	0.003	0.003	0.003	0.007
120	0.008	0.017	0.017	0.005	0.005	0.006	0.012
180	0.009	0.019	0.019	0.005	0.005	0.008	0.013
240	0.010	0.021	0.020	0.005	0.005	0.010	0.014
300	0.011	0.022	0.022	0.005	0.005	0.012	0.015
360	0.012	0.024	0.023	0.005	0.005	0.014	0.016
420	0.012	0.025	0.024	0.005	0.005	0.015	0.017
480	0.013	0.026	0.025	0.006	0.005	0.017	0.018
540	0.013	0.027	0.026	0.006	0.006	0.018	0.018
600	0.013	0.027	0.026	0.006	0.006	0.018	0.018
660	0.013	0.027	0.026	0.006	0.006	0.019	0.019
720	0.013	0.027	0.026	0.006	0.006	0.019	0.019

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.017	0.037	0.029	0.003	0.016	0.135	0.025
10	0.032	0.068	0.054	0.006	0.029	0.251	0.046
20	0.055	0.117	0.092	0.010	0.050	0.438	0.079
30	0.071	0.151	0.119	0.013	0.064	0.577	0.102
40	0.077	0.164	0.129	0.014	0.070	0.632	0.111

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

ALL Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.028	0.083	0.090	0.002	0.001	0.452	0.064

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Mul ti -Day Di urnal Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reactive Org Gases	Temperature: ALL						Rel ative Humi di ty:
ALL	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
Temp degF 85	0.002	0.006	0.006	0.000	0.000	0.043	0.005

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Parti al Day Resti ng Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reactive Org Gases	Temperature: ALL						Rel ative Humi di ty:
ALL	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
Temp degF 85	0.015	0.054	0.063	0.002	0.001	0.232	0.038

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	85	0.001	0.004	0.004	0.000	0.000	0.023	0.003

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

ALL	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.526	0.336	0.089	0.037	0.004	0.008	1.000
%TRIP	0.509	0.299	0.124	0.057	0.001	0.010	1.000
%VEH	0.540	0.324	0.082	0.021	0.001	0.032	1.000

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emi ssi ons

(grams/minute)

Poll utant Name: Reactive Org Gases Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.007	0.190	0.206	0.046	0.261	0.004	0.089
2	0.006	0.097	0.105	0.023	0.131	0.036	0.046
3	0.006	0.068	0.074	0.016	0.089	0.053	0.034
4	0.007	0.055	0.060	0.013	0.068	0.062	0.029
5	0.008	0.047	0.051	0.011	0.056	0.068	0.026
10	0.010	0.032	0.035	0.007	0.031	0.079	0.020
15	0.010	0.028	0.031	0.006	0.024	0.081	0.018
20	0.010	0.026	0.029	0.006	0.021	0.081	0.018
25	0.010	0.025	0.028	0.006	0.019	0.080	0.017
30	0.010	0.024	0.028	0.006	0.019	0.078	0.017
35	0.010	0.024	0.027	0.005	0.019	0.076	0.017
40	0.010	0.024	0.027	0.005	0.018	0.074	0.016
45	0.010	0.023	0.026	0.005	0.018	0.072	0.016
50	0.009	0.023	0.026	0.005	0.017	0.071	0.016
55	0.009	0.022	0.025	0.005	0.017	0.069	0.015
60	0.009	0.022	0.025	0.005	0.017	0.067	0.015

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer
 Table 1: Runni ng Exhaust Emi ssi ons (grams/mi l e;
 grams/i dl e-hour)

Pol l utant Name: Reacti ve Org Gases Temperature: 85F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	3.148	6.235	0.000	0.000	0.513
1	0.064	0.117	0.161	1.122	1.549	4.714	0.173
2	0.064	0.117	0.161	1.122	1.549	4.714	0.173
3	0.060	0.111	0.153	1.122	1.549	4.714	0.169
4	0.054	0.099	0.139	1.122	1.549	4.714	0.161
5	0.049	0.089	0.127	1.122	1.549	4.714	0.153

Pol l utant Name: Carbon Monoxi de Temperature: 85F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	19.871	35.430	0.000	0.000	3.090
1	1.178	1.931	2.506	4.792	9.642	23.204	1.897
2	1.178	1.931	2.506	4.792	9.642	23.204	1.897
3	1.167	1.912	2.484	4.792	9.642	23.204	1.883
4	1.145	1.875	2.441	4.792	9.642	23.204	1.854
5	1.123	1.838	2.399	4.792	9.642	23.204	1.827

Pol l utant Name: Oxi des of Ni trogen Temperature: 85F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	4.505	85.017	0.000	0.000	3.565
1	0.056	0.102	0.200	3.288	16.641	0.921	0.271
2	0.056	0.102	0.200	3.288	16.641	0.921	0.271
3	0.055	0.101	0.198	3.288	16.641	0.921	0.270
4	0.053	0.098	0.195	3.288	16.641	0.921	0.268
5	0.052	0.095	0.192	3.288	16.641	0.921	0.266

Pol l utant Name: Carbon Di oxi de Temperature: 85F Rel ati ve Humi di ty:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	914.105	5075.152	0.000	0.000	270.363
1	1315.459	1648.649	2183.258	2621.551	2451.380	266.383	1548.589
2	1315.459	1648.649	2183.258	2621.551	2451.380	266.383	1548.589
3	1278.943	1602.719	2133.219	2621.551	2451.380	266.383	1509.500
4	1210.471	1516.595	2039.392	2621.551	2451.380	266.383	1436.204
5	1147.614	1437.532	1953.257	2621.551	2451.380	266.383	1368.919

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer
 Pollutant Name: Sul fur Di oxide Temperature: 85F Relative Humidity:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.049	0.000	0.000	0.003
1	0.013	0.016	0.021	0.025	0.023	0.003	0.015
2	0.013	0.016	0.021	0.025	0.023	0.003	0.015
3	0.012	0.015	0.021	0.025	0.023	0.003	0.015
4	0.012	0.015	0.020	0.025	0.023	0.003	0.014
5	0.011	0.014	0.019	0.025	0.023	0.003	0.013

Pollutant Name: PM10 Temperature: 85F Relative Humidity:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.046	0.394	0.000	0.000	0.019
1	0.066	0.139	0.159	0.195	0.527	0.030	0.105
2	0.066	0.139	0.159	0.195	0.527	0.030	0.105
3	0.063	0.133	0.152	0.195	0.527	0.030	0.101
4	0.057	0.121	0.139	0.195	0.527	0.030	0.092
5	0.052	0.110	0.128	0.195	0.527	0.030	0.085

Pollutant Name: PM10 - Tire Wear Temperature: 85F Relative Humidity:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.022	0.009	0.004	0.009
2	0.008	0.008	0.009	0.022	0.009	0.004	0.009
3	0.008	0.008	0.009	0.022	0.009	0.004	0.009
4	0.008	0.008	0.009	0.022	0.009	0.004	0.009
5	0.008	0.008	0.009	0.022	0.009	0.004	0.009

Pollutant Name: PM10 - Break Wear Temperature: 85F Relative Humidity:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.019	0.013	0.006	0.013
2	0.013	0.013	0.013	0.019	0.013	0.006	0.013
3	0.013	0.013	0.013	0.019	0.013	0.006	0.013
4	0.013	0.013	0.013	0.019	0.013	0.006	0.013
5	0.013	0.013	0.013	0.019	0.013	0.006	0.013

Pollutant Name: Gasoline - mi/gal Temperature: 85F Relative Humidity:

50%

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.725	5.361	3.876	3.514	3.488	27.865	6.160
2	6.725	5.361	3.876	3.514	3.488	27.865	6.160
3	6.917	5.514	3.972	3.514	3.488	27.865	6.328
4	7.308	5.827	4.167	3.514	3.488	27.865	6.668
5	7.708	6.147	4.367	3.514	3.488	27.865	7.016

50% Pollutant Name: Diesel - mi/gal Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.457	4.719	4.145	0.000	6.738
2	29.156	29.156	19.457	4.719	4.145	0.000	6.738
3	29.156	29.156	19.457	4.719	4.145	0.000	6.738
4	29.156	29.156	19.457	4.719	4.145	0.000	6.738
5	29.156	29.156	19.457	4.719	4.145	0.000	6.738

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average San Francisco Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.003	0.006	0.023	0.042	0.082	0.582	0.014
10	0.006	0.011	0.045	0.082	0.159	0.721	0.024
20	0.011	0.022	0.088	0.156	0.302	0.987	0.042
30	0.017	0.032	0.130	0.221	0.428	1.238	0.059
40	0.022	0.042	0.169	0.277	0.538	1.474	0.075
50	0.026	0.051	0.207	0.325	0.631	1.694	0.090
60	0.031	0.059	0.244	0.364	0.707	1.856	0.103
120	0.051	0.099	0.422	0.441	0.855	2.215	0.155
180	0.058	0.114	0.454	0.468	0.908	2.353	0.170

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer

240	0.062	0.121	0.483	0.494	0.958	2.502	0.181
300	0.066	0.128	0.512	0.519	1.007	2.648	0.192
360	0.069	0.135	0.541	0.543	1.054	2.791	0.202
420	0.073	0.142	0.570	0.567	1.100	2.930	0.212
480	0.076	0.149	0.599	0.589	1.144	3.067	0.222
540	0.080	0.156	0.627	0.611	1.186	3.200	0.232
600	0.083	0.163	0.656	0.632	1.227	3.331	0.242
660	0.087	0.170	0.684	0.652	1.266	3.458	0.252
720	0.090	0.177	0.712	0.672	1.303	3.583	0.262

ALL Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.044	0.079	0.300	0.603	0.702	2.949	0.147
10	0.087	0.155	0.593	1.181	1.375	3.425	0.266
20	0.169	0.303	1.160	2.264	2.636	4.344	0.494
30	0.248	0.444	1.702	3.250	3.783	5.219	0.709
40	0.323	0.578	2.218	4.137	4.816	6.050	0.911
50	0.394	0.704	2.709	4.926	5.735	6.836	1.099
60	0.460	0.823	3.175	5.618	6.540	7.578	1.274
120	0.748	1.339	5.192	7.638	8.893	11.200	1.977
180	1.058	1.882	6.079	7.862	9.153	12.291	2.432
240	1.152	2.046	6.634	8.092	9.421	13.369	2.621
300	1.234	2.190	7.120	8.330	9.698	14.363	2.790
360	1.305	2.315	7.539	8.576	9.984	15.273	2.939
420	1.365	2.420	7.890	8.828	10.278	16.099	3.067
480	1.413	2.506	8.173	9.089	10.581	16.840	3.175
540	1.451	2.573	8.388	9.356	10.892	17.498	3.262
600	1.477	2.619	8.534	9.631	11.212	18.071	3.329
660	1.492	2.647	8.613	9.913	11.541	18.560	3.376
720	1.495	2.654	8.623	10.203	11.878	18.965	3.402

ALL Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.028	0.062	0.530	0.172	0.394	0.148	0.110
10	0.029	0.065	0.549	0.258	0.593	0.186	0.119
20	0.032	0.071	0.586	0.411	0.944	0.254	0.137
30	0.034	0.076	0.618	0.535	1.229	0.310	0.151
40	0.036	0.080	0.646	0.631	1.450	0.354	0.163
50	0.037	0.083	0.669	0.699	1.606	0.386	0.172
60	0.039	0.086	0.689	0.739	1.696	0.406	0.178
120	0.042	0.093	0.756	0.743	1.706	0.408	0.191
180	0.043	0.095	0.757	0.740	1.699	0.404	0.191
240	0.042	0.094	0.751	0.736	1.690	0.398	0.190
300	0.042	0.093	0.741	0.730	1.677	0.390	0.187
360	0.041	0.091	0.727	0.723	1.661	0.380	0.184
420	0.040	0.089	0.709	0.715	1.641	0.369	0.180
480	0.039	0.086	0.688	0.705	1.618	0.357	0.176
540	0.038	0.083	0.662	0.694	1.592	0.343	0.170
600	0.036	0.080	0.632	0.681	1.563	0.327	0.164
660	0.034	0.076	0.599	0.667	1.530	0.309	0.156
720	0.032	0.071	0.562	0.651	1.494	0.290	0.148

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Summer

ALL Poll utant Name: Carbon Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.293	15.448	21.726	2.805	2.281	13.075	13.871
10	13.757	17.314	24.413	5.594	4.549	15.265	15.690
20	17.192	21.680	30.676	11.126	9.047	19.565	19.884
30	21.303	26.892	38.124	16.596	13.495	23.760	24.818
40	26.088	32.951	46.756	22.004	17.892	27.848	30.491
50	31.549	39.856	56.573	27.349	22.239	31.830	36.904
60	37.685	47.607	67.574	32.633	26.535	35.706	44.056
120	88.176	111.176	157.270	55.503	45.132	53.106	101.418
180	100.043	126.165	178.540	65.572	53.320	57.380	115.209
240	111.901	141.136	199.770	75.048	61.024	61.403	128.949
300	123.750	156.091	220.962	83.929	68.246	65.175	142.637
360	135.590	171.028	242.114	92.215	74.984	68.696	156.275
420	147.422	185.949	263.226	99.907	81.239	71.966	169.861
480	159.244	200.852	284.299	107.005	87.010	74.986	183.397
540	171.059	215.738	305.333	113.509	92.299	77.754	196.881
600	182.864	230.607	326.328	119.418	97.104	80.272	210.315
660	194.661	245.459	347.283	124.733	101.426	82.539	223.697
720	206.449	260.294	368.199	129.454	105.264	84.555	237.028

ALL Poll utant Name: Sul fur Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.001	0.000	0.000	0.000	0.000
60	0.000	0.000	0.001	0.000	0.000	0.001	0.000
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.001	0.001	0.001
240	0.001	0.001	0.002	0.001	0.001	0.001	0.001
300	0.001	0.002	0.002	0.001	0.001	0.001	0.001
360	0.001	0.002	0.002	0.001	0.001	0.001	0.002
420	0.001	0.002	0.003	0.001	0.001	0.001	0.002
480	0.002	0.002	0.003	0.001	0.001	0.001	0.002
540	0.002	0.002	0.003	0.001	0.001	0.001	0.002
600	0.002	0.002	0.003	0.001	0.001	0.001	0.002
660	0.002	0.002	0.003	0.001	0.001	0.001	0.002
720	0.002	0.003	0.004	0.001	0.001	0.001	0.002

ALL Poll utant Name: PM10 Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM10	ROG	Summer
5	0.000	0.001	0.001	0.000	0.000	0.007	0.001
10	0.001	0.002	0.002	0.001	0.001	0.006	0.001
20	0.002	0.004	0.004	0.001	0.001	0.005	0.003
30	0.003	0.006	0.005	0.002	0.002	0.004	0.004
40	0.003	0.007	0.007	0.003	0.003	0.003	0.005
50	0.004	0.009	0.009	0.003	0.003	0.003	0.006
60	0.005	0.010	0.010	0.003	0.003	0.003	0.007
120	0.008	0.017	0.017	0.005	0.005	0.006	0.012
180	0.009	0.019	0.019	0.005	0.005	0.008	0.013
240	0.010	0.021	0.020	0.005	0.005	0.010	0.014
300	0.011	0.022	0.022	0.005	0.005	0.012	0.015
360	0.012	0.024	0.023	0.005	0.005	0.014	0.016
420	0.012	0.025	0.024	0.005	0.005	0.015	0.017
480	0.012	0.026	0.025	0.006	0.006	0.017	0.018
540	0.013	0.026	0.026	0.006	0.006	0.018	0.018
600	0.013	0.027	0.026	0.006	0.006	0.018	0.018
660	0.013	0.027	0.026	0.006	0.006	0.019	0.019
720	0.013	0.027	0.026	0.006	0.006	0.019	0.019

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2008/04/14 12:42:33
Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
Season : Summer
Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:
ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.016	0.035	0.028	0.003	0.016	0.135	0.024
10	0.029	0.065	0.052	0.006	0.029	0.251	0.044
20	0.050	0.111	0.090	0.010	0.050	0.438	0.075
30	0.065	0.144	0.116	0.013	0.064	0.576	0.097
40	0.070	0.156	0.126	0.014	0.069	0.632	0.105

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer
 Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

 Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions
 (grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.024	0.079	0.089	0.002	0.001	0.452	0.060

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

 Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions
 (grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.002	0.005	0.006	0.000	0.000	0.043	0.005

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.013	0.052	0.062	0.002	0.001	0.232	0.036

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.001	0.004	0.004	0.000	0.000	0.023	0.003

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Summer
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.526	0.336	0.089	0.037	0.004	0.008	1.000
%TRIP	0.509	0.299	0.124	0.057	0.001	0.010	1.000
%VEH	0.540	0.324	0.082	0.021	0.001	0.032	1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 12:42:33
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.007	0.176	0.198	0.043	0.258	0.004	0.083
2	0.005	0.090	0.101	0.022	0.130	0.036	0.044
3	0.006	0.063	0.071	0.015	0.088	0.053	0.032
4	0.007	0.051	0.058	0.012	0.067	0.062	0.027
5	0.008	0.044	0.050	0.010	0.055	0.068	0.025
10	0.010	0.031	0.035	0.007	0.031	0.079	0.019
15	0.010	0.027	0.030	0.006	0.024	0.081	0.018
20	0.010	0.025	0.028	0.006	0.021	0.081	0.017
25	0.010	0.024	0.028	0.006	0.019	0.080	0.017

Vehicle Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM10	ROG	Summer
30	0.010	0.024	0.027	0.005	0.019	0.078	0.016
35	0.010	0.023	0.027	0.005	0.018	0.076	0.016
40	0.009	0.023	0.026	0.005	0.018	0.074	0.016
45	0.009	0.022	0.026	0.005	0.018	0.072	0.016
50	0.009	0.022	0.025	0.005	0.017	0.070	0.015
55	0.009	0.022	0.025	0.005	0.017	0.069	0.015
60	0.009	0.021	0.025	0.005	0.017	0.067	0.015

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter
 Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 1: Running Exhaust Emissions (grams/mile;
 grams/minute-hour)

Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	3.351	9.801	0.000	0.000	0.724
1	0.806	0.916	0.735	6.541	3.228	6.771	1.125
2	0.806	0.916	0.735	6.541	3.228	6.771	1.125
3	0.771	0.877	0.710	6.541	3.228	6.771	1.092
4	0.707	0.805	0.664	6.541	3.228	6.771	1.030
5	0.649	0.741	0.623	6.541	3.228	6.771	0.974

Pollutant Name: Carbon Monoxide Temperature: 37F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	20.655	52.598	0.000	0.000	4.146
1	8.621	11.001	8.044	27.146	25.137	53.423	10.544
2	8.621	11.001	8.044	27.146	25.137	53.423	10.544
3	8.431	10.754	7.935	27.146	25.137	53.423	10.352
4	8.072	10.289	7.728	27.146	25.137	53.423	9.990
5	7.741	9.859	7.535	27.146	25.137	53.423	9.656

Pollutant Name: Oxides of Nitrogen Temperature: 37F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	5.222	74.383	0.000	0.000	3.524
1	0.751	1.241	1.709	27.995	37.183	1.370	2.256
2	0.751	1.241	1.709	27.995	37.183	1.370	2.256
3	0.739	1.220	1.691	27.995	37.183	1.370	2.241
4	0.717	1.181	1.657	27.995	37.183	1.370	2.213
5	0.697	1.144	1.625	27.995	37.183	1.370	2.187

Pollutant Name: Carbon Dioxide Temperature: 37F Relative Humidity:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	898.979	4695.166	0.000	0.000	277.947
1	1123.513	1369.756	1876.674	2700.730	2662.439	231.618	1343.687
2	1123.513	1369.756	1876.674	2700.730	2662.439	231.618	1343.687
3	1088.655	1327.371	1829.746	2700.730	2662.439	231.618	1306.898
4	1023.293	1247.896	1741.751	2700.730	2662.439	231.618	1237.914
5	963.291	1174.937	1660.971	2700.730	2662.439	231.618	1174.587

Pol l utant Name: Sul fur Di oxi de

Temperature: 37F Rel ati ve Humi di ty:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.045	0.000	0.000	0.003
1	0.011	0.013	0.018	0.026	0.026	0.003	0.013
2	0.011	0.013	0.018	0.026	0.026	0.003	0.013
3	0.011	0.013	0.018	0.026	0.026	0.003	0.013
4	0.010	0.012	0.017	0.026	0.026	0.003	0.012
5	0.009	0.011	0.016	0.026	0.026	0.003	0.011

Pol l utant Name: PM10

Temperature: 37F Rel ati ve Humi di ty:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.062	1.565	0.000	0.000	0.069
1	0.063	0.108	0.111	1.626	0.855	0.061	0.150
2	0.063	0.108	0.111	1.626	0.855	0.061	0.150
3	0.061	0.103	0.107	1.626	0.855	0.061	0.146
4	0.055	0.095	0.098	1.626	0.855	0.061	0.140
5	0.051	0.087	0.091	1.626	0.855	0.061	0.134

Pol l utant Name: PM10 - Ti re Wear

Temperature: 37F Rel ati ve Humi di ty:

50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.023	0.008	0.004	0.009
2	0.008	0.008	0.009	0.023	0.008	0.004	0.009
3	0.008	0.008	0.009	0.023	0.008	0.004	0.009
4	0.008	0.008	0.009	0.023	0.008	0.004	0.009
5	0.008	0.008	0.009	0.023	0.008	0.004	0.009

Pol l utant Name: PM10 - Break Wear

Temperature: 37F Rel ati ve Humi di ty:

50%

Speed

Vehi cle Queui ng MPH	Emi ssi ons_SF LDA	Bay Area LDT	Basi n_2008-10_2033-34_PM10_ROG_Wi nter MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.020	0.013	0.006	0.013
2	0.013	0.013	0.013	0.020	0.013	0.006	0.013
3	0.013	0.013	0.013	0.020	0.013	0.006	0.013
4	0.013	0.013	0.013	0.020	0.013	0.006	0.013
5	0.013	0.013	0.013	0.020	0.013	0.006	0.013

50% Poll utant Name: Gasol i ne - mi /gal Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	7.790	6.316	4.486	3.326	3.296	26.450	7.075
2	7.790	6.316	4.486	3.326	3.296	26.450	7.075
3	8.039	6.518	4.614	3.326	3.296	26.450	7.291
4	8.551	6.933	4.877	3.326	3.296	26.450	7.738
5	9.082	7.364	5.150	3.326	3.296	26.450	8.200

50% Poll utant Name: Di esel - mi /gal Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	27.923	29.002	19.621	4.553	3.759	0.000	9.704
2	27.923	29.002	19.621	4.553	3.759	0.000	9.704
3	27.923	29.002	19.621	4.553	3.759	0.000	9.704
4	27.923	29.002	19.621	4.553	3.759	0.000	9.704
5	27.923	29.002	19.621	4.553	3.759	0.000	9.704

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2008/04/14 13:42:37
Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
Season : Wi nter
Area : San Franci sco

Year: 2008 -- Model Years 1965 to 2008 Incl usi ve -- Wi nter
Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average San Franci sco Basin Average Basin

Table 2: Starti ng Emi ssi ons (grams/tri p)

Poll utant Name: Reacti ve Org Gases Temperature: 37F Rel ati ve Humi di ty:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.271	0.264	0.371	1.567	0.335	3.592	0.390
10	0.422	0.421	0.620	1.992	0.469	3.763	0.571
20	0.705	0.715	1.084	2.801	0.720	4.164	0.911
30	0.963	0.983	1.505	3.557	0.949	4.642	1.223
40	1.195	1.224	1.883	4.259	1.156	5.197	1.507
50	1.402	1.439	2.217	4.908	1.341	5.829	1.762
60	1.572	1.617	2.497	5.390	1.484	6.192	1.968
120	1.721	1.675	2.096	2.829	0.706	2.899	1.829
180	0.883	0.913	1.520	3.021	0.753	2.905	1.116
240	0.936	0.968	1.610	3.210	0.798	3.128	1.183
300	0.988	1.022	1.698	3.394	0.843	3.350	1.249
360	1.039	1.074	1.784	3.574	0.886	3.570	1.314
420	1.088	1.125	1.869	3.750	0.928	3.790	1.377
480	1.136	1.175	1.951	3.922	0.969	4.008	1.439
540	1.183	1.224	2.031	4.090	1.008	4.226	1.499
600	1.229	1.271	2.109	4.254	1.047	4.443	1.558
660	1.274	1.318	2.185	4.413	1.084	4.659	1.616
720	1.317	1.363	2.259	4.569	1.121	4.873	1.672

Poll utant Name: Carbon Monoxi de

Temperature: 37F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	1.943	2.245	4.583	14.599	3.388	6.767	3.150
10	3.481	4.107	8.613	24.061	6.063	7.764	5.554
20	6.392	7.628	16.207	41.835	11.080	9.696	10.090
30	9.082	10.881	23.182	58.077	15.653	11.543	14.266
40	11.551	13.865	29.537	72.786	19.781	13.307	18.083
50	13.800	16.580	35.272	85.963	23.465	14.987	21.539
60	15.829	19.027	40.387	97.607	26.705	16.583	24.635
120	20.186	22.551	27.044	36.803	8.618	11.555	22.636
180	10.653	12.680	17.823	40.161	9.159	11.203	13.890
240	11.327	13.444	18.808	43.296	9.676	13.898	14.795
300	11.950	14.151	19.731	46.208	10.168	16.289	15.632
360	12.521	14.802	20.589	48.896	10.635	18.374	16.401
420	13.040	15.396	21.384	51.362	11.079	20.154	17.103
480	13.507	15.933	22.115	53.604	11.497	21.629	17.738
540	13.922	16.413	22.782	55.622	11.892	22.799	18.306
600	14.285	16.837	23.386	57.418	12.261	23.665	18.806
660	14.596	17.204	23.925	58.990	12.607	24.225	19.239
720	14.855	17.514	24.401	60.339	12.927	24.480	19.604

Poll utant Name: Oxi des of Ni trogen

Temperature: 37F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.311	0.450	0.935	0.936	0.297	0.283	0.466
10	0.368	0.522	1.134	1.379	0.444	0.315	0.568
20	0.469	0.648	1.486	2.158	0.701	0.374	0.747
30	0.553	0.753	1.776	2.793	0.911	0.423	0.894

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

40	0.619	0.836	2.003	3.284	1.073	0.464	1.010
50	0.667	0.897	2.168	3.632	1.187	0.497	1.094
60	0.698	0.936	2.270	3.836	1.254	0.521	1.146
120	0.734	0.999	2.399	3.967	1.296	0.547	1.208
180	0.811	1.097	2.471	3.950	1.291	0.537	1.284
240	0.805	1.089	2.454	3.924	1.284	0.522	1.275
300	0.796	1.077	2.430	3.890	1.273	0.503	1.261
360	0.785	1.061	2.398	3.847	1.260	0.480	1.244
420	0.770	1.041	2.359	3.796	1.245	0.454	1.223
480	0.753	1.017	2.311	3.737	1.227	0.423	1.197
540	0.733	0.989	2.256	3.669	1.206	0.389	1.167
600	0.710	0.957	2.193	3.593	1.182	0.352	1.133
660	0.684	0.922	2.123	3.508	1.156	0.310	1.096
720	0.656	0.882	2.044	3.415	1.128	0.265	1.054

Pol l utant Name: Carbon Di oxi de

Temperature: 37F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.963	13.332	17.057	11.014	2.296	26.998	12.585
10	13.641	16.379	21.845	14.713	3.419	29.655	15.693
20	19.287	22.864	31.878	22.020	5.641	34.830	22.223
30	25.323	29.869	42.520	29.207	7.832	39.817	29.174
40	31.749	37.395	53.769	36.272	9.992	44.617	36.545
50	38.563	45.441	65.628	43.217	12.121	49.229	44.336
60	45.767	54.007	78.094	50.041	14.219	53.654	52.548
120	92.432	111.248	156.521	79.996	23.365	74.198	105.073
180	105.899	127.380	180.109	90.913	27.029	75.665	120.321
240	119.016	143.140	203.010	101.186	30.477	77.049	135.156
300	131.784	158.530	225.223	110.816	33.708	78.349	149.580
360	144.203	173.548	246.750	119.802	36.724	79.565	163.591
420	156.273	188.195	267.590	128.145	39.523	80.698	177.191
480	167.993	202.471	287.743	135.844	42.106	81.748	190.379
540	179.363	216.375	307.208	142.900	44.474	82.714	203.155
600	190.385	229.909	325.987	149.313	46.625	83.597	215.518
660	201.057	243.071	344.079	155.082	48.560	84.396	227.470
720	211.380	255.862	361.483	160.208	50.279	85.111	239.010

Pol l utant Name: Sul fur Di oxi de

Temperature: 37F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.001	0.000
20	0.000	0.000	0.001	0.001	0.000	0.001	0.000
30	0.000	0.000	0.001	0.001	0.000	0.001	0.001
40	0.001	0.001	0.001	0.002	0.000	0.001	0.001
50	0.001	0.001	0.001	0.002	0.001	0.001	0.001
60	0.001	0.001	0.001	0.002	0.001	0.001	0.001
120	0.001	0.001	0.002	0.001	0.000	0.001	0.001
180	0.001	0.001	0.002	0.002	0.000	0.001	0.001
240	0.001	0.002	0.002	0.002	0.000	0.001	0.002
300	0.001	0.002	0.003	0.002	0.001	0.001	0.002
360	0.002	0.002	0.003	0.002	0.001	0.001	0.002
420	0.002	0.002	0.003	0.002	0.001	0.001	0.002

Vehicle Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM10	ROG	Winter
480	0.002	0.002	0.003	0.002	0.001	0.001	0.002
540	0.002	0.002	0.003	0.002	0.001	0.001	0.002
600	0.002	0.002	0.004	0.002	0.001	0.001	0.002
660	0.002	0.003	0.004	0.003	0.001	0.001	0.003
720	0.002	0.003	0.004	0.003	0.001	0.001	0.003

ALL Pollutant Name: PM10 Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.000	0.015	0.001
10	0.001	0.002	0.002	0.001	0.000	0.014	0.002
20	0.002	0.004	0.003	0.002	0.001	0.011	0.003
30	0.003	0.006	0.005	0.003	0.001	0.008	0.004
40	0.004	0.007	0.006	0.003	0.001	0.006	0.005
50	0.005	0.009	0.007	0.004	0.001	0.005	0.006
60	0.006	0.010	0.008	0.004	0.001	0.004	0.007
120	0.009	0.015	0.012	0.006	0.002	0.010	0.011
180	0.009	0.016	0.013	0.006	0.002	0.016	0.012
240	0.010	0.017	0.014	0.007	0.002	0.021	0.012
300	0.010	0.017	0.014	0.007	0.002	0.026	0.013
360	0.011	0.018	0.015	0.007	0.002	0.030	0.014
420	0.011	0.019	0.016	0.008	0.002	0.033	0.014
480	0.012	0.019	0.016	0.008	0.003	0.036	0.015
540	0.012	0.020	0.017	0.008	0.003	0.038	0.015
600	0.012	0.020	0.017	0.008	0.003	0.039	0.015
660	0.012	0.021	0.017	0.009	0.003	0.040	0.016
720	0.013	0.021	0.018	0.009	0.003	0.040	0.016

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin Average

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.064	0.057	0.028	0.016	0.022	0.153	0.055

Vehicle Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM10	ROG	Winter
10	0.118	0.105	0.052	0.029	0.041	0.282	0.102
20	0.201	0.180	0.089	0.050	0.070	0.481	0.175
30	0.259	0.232	0.115	0.065	0.090	0.619	0.225
40	0.280	0.251	0.125	0.071	0.097	0.671	0.243

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

ALL Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

ALL Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Poll utant Name: ALL Temperature: ALL Rel ati ve Humi di ty:

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.509	0.342	0.098	0.041	0.004	0.008	1.000
%TRIP	0.503	0.306	0.122	0.059	0.001	0.010	1.000
%VEH	0.537	0.327	0.081	0.022	0.001	0.032	1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Winter
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporati ve Runni ng Loss Emi ssi ons

(grams/mi nute)

Poll utant Name: Reacti ve Org Gases Temperature: 37F Rel ati ve Humi di ty:

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.034	0.476	0.238	0.152	0.160	0.137	0.211
2	0.041	0.255	0.128	0.086	0.088	0.175	0.125
3	0.046	0.184	0.093	0.064	0.065	0.197	0.100
4	0.051	0.150	0.076	0.054	0.053	0.211	0.089
5	0.055	0.130	0.067	0.048	0.046	0.222	0.083
10	0.065	0.096	0.051	0.037	0.033	0.260	0.074
15	0.071	0.092	0.051	0.034	0.030	0.288	0.077
20	0.077	0.096	0.054	0.034	0.029	0.314	0.081
25	0.083	0.104	0.059	0.034	0.028	0.340	0.087
30	0.086	0.109	0.062	0.036	0.029	0.353	0.091
35	0.089	0.114	0.064	0.037	0.030	0.366	0.095
40	0.092	0.118	0.067	0.038	0.031	0.379	0.099
45	0.095	0.123	0.070	0.039	0.032	0.390	0.102
50	0.097	0.127	0.072	0.041	0.033	0.398	0.105
55	0.099	0.131	0.074	0.042	0.034	0.403	0.107
60	0.100	0.135	0.076	0.042	0.035	0.409	0.110

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year : 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 1: Running Exhaust Emissions (grams/mile;
 grams/ide-hour)

50% Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	3.364	9.449	0.000	0.000	0.704
1	0.688	0.822	0.677	6.119	3.213	6.503	1.007
2	0.688	0.822	0.677	6.119	3.213	6.503	1.007
3	0.658	0.787	0.654	6.119	3.213	6.503	0.977
4	0.602	0.722	0.611	6.119	3.213	6.503	0.922
5	0.553	0.663	0.572	6.119	3.213	6.503	0.874

50% Pollutant Name: Carbon Monoxide Temperature: 37F Relative Humidity:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	20.800	52.004	0.000	0.000	4.094
1	7.509	10.032	7.417	24.921	24.914	49.325	9.457
2	7.509	10.032	7.417	24.921	24.914	49.325	9.457
3	7.349	9.812	7.317	24.921	24.914	49.325	9.290
4	7.046	9.398	7.127	24.921	24.914	49.325	8.976
5	6.766	9.014	6.951	24.921	24.914	49.325	8.685

50% Pol l utant Name: Oxi des of Ni trogen Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	5.140	75.323	0.000	0.000	3.523
1	0.666	1.144	1.600	26.343	36.754	1.391	2.091
2	0.666	1.144	1.600	26.343	36.754	1.391	2.091
3	0.656	1.125	1.584	26.343	36.754	1.391	2.077
4	0.636	1.088	1.552	26.343	36.754	1.391	2.052
5	0.618	1.055	1.522	26.343	36.754	1.391	2.028

50% Pol l utant Name: Carbon Di oxi de Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	904.971	4702.505	0.000	0.000	276.206
1	1119.984	1371.116	1879.737	2696.687	2658.353	237.445	1340.530
2	1119.984	1371.116	1879.737	2696.687	2658.353	237.445	1340.530
3	1085.231	1328.679	1832.861	2696.687	2658.353	237.445	1303.803
4	1020.066	1249.105	1744.967	2696.687	2658.353	237.445	1234.937
5	960.243	1176.055	1664.278	2696.687	2658.353	237.445	1171.717

50% Pol l utant Name: Sul fur Di oxi de Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.045	0.000	0.000	0.003
1	0.011	0.013	0.018	0.026	0.026	0.003	0.013
2	0.011	0.013	0.018	0.026	0.026	0.003	0.013
3	0.011	0.013	0.018	0.026	0.026	0.003	0.013
4	0.010	0.012	0.017	0.026	0.026	0.003	0.012
5	0.009	0.011	0.016	0.026	0.026	0.003	0.011

50% Pol l utant Name: PM10 Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter

0	0.000	0.000	0.060	1.454	0.000	0.000	0.064
1	0.063	0.112	0.117	1.485	0.845	0.056	0.145
2	0.063	0.112	0.117	1.485	0.845	0.056	0.145
3	0.060	0.107	0.112	1.485	0.845	0.056	0.142
4	0.055	0.098	0.103	1.485	0.845	0.056	0.135
5	0.050	0.090	0.095	1.485	0.845	0.056	0.129

50% Pollutant Name: PM10 - Tire Wear Temperature: 37F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.023	0.008	0.004	0.009
2	0.008	0.008	0.009	0.023	0.008	0.004	0.009
3	0.008	0.008	0.009	0.023	0.008	0.004	0.009
4	0.008	0.008	0.009	0.023	0.008	0.004	0.009
5	0.008	0.008	0.009	0.023	0.008	0.004	0.009

50% Pollutant Name: PM10 - Break Wear Temperature: 37F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.020	0.013	0.006	0.013
2	0.013	0.013	0.013	0.020	0.013	0.006	0.013
3	0.013	0.013	0.013	0.020	0.013	0.006	0.013
4	0.013	0.013	0.013	0.020	0.013	0.006	0.013
5	0.013	0.013	0.013	0.020	0.013	0.006	0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 37F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	7.825	6.321	4.487	3.343	3.307	26.544	7.105
2	7.825	6.321	4.487	3.343	3.307	26.544	7.105
3	8.075	6.523	4.614	3.343	3.307	26.544	7.323
4	8.590	6.939	4.877	3.343	3.307	26.544	7.771
5	9.124	7.370	5.149	3.343	3.307	26.544	8.236

50% Pollutant Name: Diesel - mi/gal Temperature: 37F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	27.981	29.007	19.619	4.563	3.764	0.000	9.479
2	27.981	29.007	19.619	4.563	3.764	0.000	9.479

Vehicle Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM10	ROG	Winter
3	27.981	29.007	19.619	4.563	3.764	0.000	9.479
4	27.981	29.007	19.619	4.563	3.764	0.000	9.479
5	27.981	29.007	19.619	4.563	3.764	0.000	9.479

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
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 Season : Winter
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.234	0.236	0.330	1.346	0.336	3.338	0.341
10	0.369	0.382	0.560	1.752	0.471	3.530	0.508
20	0.623	0.655	0.991	2.522	0.726	3.960	0.821
30	0.854	0.903	1.382	3.236	0.958	4.454	1.108
40	1.062	1.127	1.733	3.893	1.168	5.012	1.368
50	1.248	1.326	2.043	4.494	1.355	5.634	1.602
60	1.402	1.493	2.305	4.946	1.499	6.002	1.792
120	1.562	1.573	2.006	2.618	0.721	2.992	1.695
180	0.793	0.849	1.433	2.794	0.769	2.860	1.026
240	0.841	0.900	1.518	2.966	0.815	3.076	1.088
300	0.887	0.949	1.601	3.134	0.860	3.290	1.148
360	0.933	0.998	1.682	3.298	0.904	3.502	1.208
420	0.977	1.045	1.762	3.459	0.947	3.714	1.266
480	1.021	1.092	1.840	3.615	0.989	3.924	1.323
540	1.063	1.137	1.915	3.767	1.029	4.133	1.378
600	1.104	1.182	1.990	3.916	1.068	4.341	1.432
660	1.145	1.225	2.062	4.060	1.107	4.547	1.485
720	1.184	1.267	2.132	4.201	1.144	4.753	1.537

ALL Pollutant Name: Carbon Monoxide Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	1.738	2.078	4.170	13.422	3.386	6.545	2.871
10	3.142	3.829	7.879	22.527	6.063	7.734	5.113
20	5.801	7.142	14.875	39.624	11.084	10.021	9.346

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter

30	8.262	10.205	21.309	55.236	15.660	12.185	13.245
40	10.525	13.018	27.180	69.365	19.791	14.227	16.812
50	12.589	15.581	32.489	82.009	23.477	16.145	20.045
60	14.455	17.895	37.235	93.169	26.719	17.941	22.944
120	18.670	21.483	26.318	34.891	8.684	13.860	21.364
180	9.762	11.957	16.714	37.807	9.225	11.371	12.941
240	10.386	12.684	17.655	40.540	9.742	13.896	13.777
300	10.960	13.354	18.532	43.093	10.235	16.140	14.550
360	11.485	13.970	19.345	45.464	10.704	18.102	15.260
420	11.960	14.530	20.093	47.655	11.148	19.783	15.906
480	12.386	15.034	20.776	49.664	11.568	21.182	16.490
540	12.761	15.483	21.396	51.492	11.964	22.300	17.010
600	13.088	15.876	21.951	53.138	12.336	23.136	17.467
660	13.364	16.214	22.441	54.604	12.683	23.690	17.860
720	13.591	16.496	22.867	55.888	13.007	23.963	18.191

ALL Pollutant Name: Oxides of Nitrogen Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.293	0.434	0.940	0.894	0.306	0.272	0.450
10	0.344	0.499	1.125	1.321	0.456	0.306	0.544
20	0.434	0.615	1.452	2.072	0.721	0.368	0.710
30	0.509	0.712	1.721	2.684	0.937	0.419	0.846
40	0.568	0.788	1.933	3.157	1.104	0.462	0.953
50	0.611	0.844	2.087	3.493	1.222	0.495	1.031
60	0.639	0.881	2.184	3.689	1.291	0.519	1.080
120	0.673	0.942	2.313	3.814	1.334	0.544	1.139
180	0.745	1.035	2.383	3.798	1.329	0.536	1.211
240	0.739	1.027	2.367	3.774	1.321	0.521	1.203
300	0.731	1.016	2.344	3.742	1.310	0.503	1.190
360	0.720	1.001	2.312	3.702	1.297	0.482	1.174
420	0.707	0.982	2.273	3.653	1.281	0.457	1.153
480	0.691	0.959	2.226	3.597	1.262	0.428	1.129
540	0.672	0.932	2.172	3.533	1.241	0.396	1.100
600	0.651	0.902	2.109	3.460	1.217	0.360	1.068
660	0.627	0.868	2.039	3.380	1.190	0.320	1.032
720	0.601	0.830	1.961	3.292	1.161	0.277	0.992

ALL Pollutant Name: Carbon Dioxide Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	11.023	13.416	17.380	9.702	2.336	25.396	12.589
10	13.551	16.359	21.962	13.278	3.506	28.003	15.557
20	18.926	22.656	31.622	20.347	5.823	33.083	21.833
30	24.725	29.502	41.947	27.304	8.107	37.985	28.563
40	30.947	36.896	52.937	34.149	10.358	42.709	35.746
50	37.592	44.838	64.590	40.882	12.578	47.255	43.383
60	44.661	53.328	76.909	47.503	14.765	51.623	51.474
120	91.732	111.067	156.370	76.513	24.300	71.831	104.432
180	105.020	127.115	179.753	87.384	28.137	73.634	119.541
240	117.997	142.820	202.511	97.614	31.748	75.333	134.274
300	130.665	158.184	224.642	107.203	35.132	76.929	148.632
360	143.023	173.205	246.148	116.151	38.290	78.421	162.613

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Wi nter

420	155.071	187.885	267.027	124.459	41.221	79.809	176.219
480	166.809	202.222	287.280	132.125	43.927	81.095	189.450
540	178.238	216.217	306.907	139.151	46.405	82.276	202.305
600	189.357	229.870	325.908	145.536	48.658	83.354	214.783
660	200.166	243.180	344.283	151.280	50.684	84.329	226.887
720	210.665	256.149	362.031	156.383	52.485	85.200	238.614

ALL Pollutant Name: Sul fur Di ox i de Temperature: 37F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.001	0.000	0.000	0.000
20	0.000	0.000	0.001	0.001	0.000	0.001	0.000
30	0.000	0.000	0.001	0.001	0.000	0.001	0.001
40	0.000	0.001	0.001	0.001	0.000	0.001	0.001
50	0.001	0.001	0.001	0.002	0.001	0.001	0.001
60	0.001	0.001	0.001	0.002	0.001	0.001	0.001
120	0.001	0.001	0.002	0.001	0.000	0.001	0.001
180	0.001	0.001	0.002	0.001	0.000	0.001	0.001
240	0.001	0.002	0.002	0.002	0.000	0.001	0.002
300	0.001	0.002	0.002	0.002	0.001	0.001	0.002
360	0.002	0.002	0.003	0.002	0.001	0.001	0.002
420	0.002	0.002	0.003	0.002	0.001	0.001	0.002
480	0.002	0.002	0.003	0.002	0.001	0.001	0.002
540	0.002	0.002	0.003	0.002	0.001	0.001	0.002
600	0.002	0.002	0.004	0.002	0.001	0.001	0.002
660	0.002	0.003	0.004	0.002	0.001	0.001	0.002
720	0.002	0.003	0.004	0.002	0.001	0.001	0.003

ALL Pollutant Name: PM10 Temperature: 37F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.000	0.014	0.001
10	0.001	0.002	0.002	0.001	0.000	0.013	0.002
20	0.002	0.004	0.003	0.002	0.001	0.010	0.003
30	0.003	0.006	0.005	0.003	0.001	0.008	0.004
40	0.004	0.007	0.006	0.003	0.001	0.006	0.005
50	0.005	0.009	0.008	0.004	0.001	0.005	0.007
60	0.006	0.010	0.009	0.004	0.002	0.004	0.008
120	0.009	0.015	0.013	0.006	0.002	0.010	0.011
180	0.009	0.016	0.014	0.006	0.002	0.015	0.012
240	0.010	0.017	0.014	0.007	0.002	0.020	0.013
300	0.010	0.018	0.015	0.007	0.002	0.024	0.013
360	0.011	0.019	0.016	0.007	0.003	0.028	0.014
420	0.011	0.020	0.016	0.007	0.003	0.031	0.014
480	0.012	0.020	0.017	0.008	0.003	0.033	0.015
540	0.012	0.021	0.017	0.008	0.003	0.035	0.015
600	0.012	0.021	0.018	0.008	0.003	0.037	0.016
660	0.013	0.022	0.018	0.008	0.003	0.037	0.016
720	0.013	0.022	0.018	0.009	0.003	0.038	0.016

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.062	0.057	0.028	0.014	0.022	0.134	0.054
10	0.114	0.105	0.052	0.026	0.041	0.248	0.100
20	0.194	0.180	0.089	0.045	0.070	0.423	0.170
30	0.249	0.231	0.114	0.058	0.090	0.545	0.219
40	0.269	0.251	0.124	0.063	0.097	0.590	0.237

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
 ALL

Temp

Vehi cle Queui ng degF	Emi ssi ons_SF LDA	Bay Area LDT	Basin_2008-10_2033-34 PM10_ROG_Winter MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2008/04/14 13:42:37
Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
Season : Winter
Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin Average Basin
Average

Table 5b: Multi-Day Diurnal Loss Emissions
(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2008/04/14 13:42:37
Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
Season : Winter
Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin Average Basin
Average

Table 6a: Partial Day Resting Loss Emissions
(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:
ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

37 0.000 0.000 0.000 0.000 0.000 0.000 0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Mul ti -Day Resti ng Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reacti ve Org Gases Temperature: ALL Rel ati ve Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fracti ons

Pol l utant Name: Temperature: ALL Rel ati ve Humi di ty:
 ALL

LDA	LDT	MDT	HDT	UBUS	MCY	ALL
-----	-----	-----	-----	------	-----	-----

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter
 %VMT 0.512 0.340 0.096 0.040 0.004 0.008 1.000
 %TRIP 0.503 0.306 0.122 0.059 0.001 0.010 1.000
 %VEH 0.537 0.326 0.081 0.022 0.001 0.032 1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Winter
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.030	0.489	0.247	0.160	0.172	0.106	0.213
2	0.036	0.260	0.132	0.089	0.094	0.145	0.125
3	0.041	0.187	0.095	0.066	0.069	0.167	0.098
4	0.045	0.151	0.078	0.055	0.056	0.182	0.086
5	0.049	0.131	0.068	0.048	0.049	0.193	0.080
10	0.058	0.096	0.052	0.036	0.035	0.228	0.070
15	0.064	0.090	0.051	0.033	0.031	0.254	0.072
20	0.069	0.093	0.053	0.033	0.029	0.278	0.076
25	0.074	0.100	0.058	0.033	0.029	0.300	0.081
30	0.077	0.105	0.060	0.034	0.030	0.313	0.085
35	0.080	0.110	0.063	0.036	0.031	0.325	0.088
40	0.082	0.114	0.066	0.037	0.032	0.336	0.091
45	0.085	0.118	0.068	0.038	0.033	0.347	0.095
50	0.087	0.122	0.070	0.039	0.034	0.354	0.097
55	0.088	0.126	0.073	0.040	0.035	0.360	0.099
60	0.090	0.130	0.075	0.041	0.036	0.366	0.102

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : San Francisco

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter

2	1116.807	1372.461	1882.028	2695.708	2654.583	242.441	1337.819
3	1082.148	1329.971	1835.207	2695.708	2654.583	242.441	1301.150
4	1017.160	1250.299	1747.413	2695.708	2654.583	242.441	1232.393
5	957.500	1177.160	1666.817	2695.708	2654.583	242.441	1169.274

50% Pollutant Name: Sul fur Di oxi de Temperature: 37F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.045	0.000	0.000	0.003
1	0.011	0.013	0.018	0.026	0.026	0.003	0.013
2	0.011	0.013	0.018	0.026	0.026	0.003	0.013
3	0.010	0.013	0.018	0.026	0.026	0.003	0.013
4	0.010	0.012	0.017	0.026	0.026	0.003	0.012
5	0.009	0.011	0.016	0.026	0.026	0.003	0.011

50% Pollutant Name: PM10 Temperature: 37F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.058	1.348	0.000	0.000	0.059
1	0.063	0.116	0.122	1.335	0.836	0.051	0.140
2	0.063	0.116	0.122	1.335	0.836	0.051	0.140
3	0.060	0.111	0.117	1.335	0.836	0.051	0.137
4	0.055	0.101	0.108	1.335	0.836	0.051	0.130
5	0.050	0.093	0.100	1.335	0.836	0.051	0.124

50% Pollutant Name: PM10 - Ti re Wear Temperature: 37F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.023	0.008	0.004	0.009
2	0.008	0.008	0.009	0.023	0.008	0.004	0.009
3	0.008	0.008	0.009	0.023	0.008	0.004	0.009
4	0.008	0.008	0.009	0.023	0.008	0.004	0.009
5	0.008	0.008	0.009	0.023	0.008	0.004	0.009

50% Pollutant Name: PM10 - Break Wear Temperature: 37F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.020	0.013	0.006	0.013
2	0.013	0.013	0.013	0.020	0.013	0.006	0.013
3	0.013	0.013	0.013	0.020	0.013	0.006	0.013
4	0.013	0.013	0.013	0.020	0.013	0.006	0.013

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter
 5 0. 013 0. 013 0. 013 0. 020 0. 013 0. 006 0. 013

50% Pol l utant Name: Gasol i ne - mi /gal Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0. 000	0. 000	0. 000	0. 000	0. 000	0. 000	0. 000
1	7. 857	6. 326	4. 487	3. 359	3. 316	26. 627	7. 134
2	7. 857	6. 326	4. 487	3. 359	3. 316	26. 627	7. 134
3	8. 108	6. 528	4. 614	3. 359	3. 316	26. 627	7. 352
4	8. 625	6. 944	4. 877	3. 359	3. 316	26. 627	7. 802
5	9. 161	7. 376	5. 148	3. 359	3. 316	26. 627	8. 268

50% Pol l utant Name: Di esel - mi /gal Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0. 000	0. 000	0. 000	0. 000	0. 000	0. 000	0. 000
1	28. 024	29. 005	19. 617	4. 566	3. 769	0. 000	9. 248
2	28. 024	29. 005	19. 617	4. 566	3. 769	0. 000	9. 248
3	28. 024	29. 005	19. 617	4. 566	3. 769	0. 000	9. 248
4	28. 024	29. 005	19. 617	4. 566	3. 769	0. 000	9. 248
5	28. 024	29. 005	19. 617	4. 566	3. 769	0. 000	9. 248

Title : San Franci sco Ai r Basi n Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Versi on : Emfac2007 V2. 3 Nov 1 2006
 Run Date : 2008/04/14 13: 42: 37
 Scen Year: 2010 -- All model years i n the range 1966 to 2010 selected
 Season : Wi nter
 Area : San Franci sco

Year: 2010 -- Model Years 1966 to 2010 Incl usi ve -- Wi nter
 Emfac2007 Emi ssi on Factors: V2. 3 Nov 1 2006

Average San Franci sco Basi n Average Basi n

Table 2: Starti ng Emi ssi ons (grams/tri p)

ALL Pol l utant Name: Reacti ve Org Gases Temperature: 37F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0. 196	0. 210	0. 293	1. 164	0. 336	3. 108	0. 297
10	0. 317	0. 345	0. 508	1. 550	0. 474	3. 317	0. 450

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Wi nter

20	0.544	0.598	0.910	2.278	0.732	3.775	0.738
30	0.750	0.828	1.275	2.950	0.967	4.283	1.001
40	0.936	1.036	1.602	3.563	1.179	4.844	1.239
50	1.101	1.220	1.893	4.120	1.367	5.456	1.453
60	1.240	1.376	2.140	4.543	1.514	5.827	1.629
120	1.409	1.474	1.925	2.426	0.736	3.081	1.567
180	0.707	0.788	1.354	2.587	0.785	2.822	0.941
240	0.750	0.835	1.435	2.745	0.832	3.031	0.998
300	0.791	0.881	1.513	2.899	0.878	3.238	1.054
360	0.831	0.926	1.590	3.049	0.923	3.444	1.108
420	0.871	0.970	1.666	3.195	0.966	3.648	1.161
480	0.910	1.013	1.740	3.338	1.009	3.851	1.213
540	0.947	1.055	1.812	3.477	1.050	4.052	1.264
600	0.984	1.097	1.882	3.612	1.090	4.252	1.313
660	1.020	1.137	1.951	3.743	1.129	4.450	1.362
720	1.055	1.176	2.018	3.871	1.166	4.647	1.409

ALL Pollutant Name: Carbon Monoxide Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	1.541	1.920	3.813	12.308	3.387	6.341	2.610
10	2.821	3.564	7.249	20.996	6.068	7.705	4.699
20	5.247	6.679	13.734	37.306	11.096	10.314	8.645
30	7.495	9.561	19.707	52.191	15.678	12.766	12.283
40	9.565	12.211	25.166	65.653	19.816	15.059	15.613
50	11.457	14.628	30.111	77.692	23.507	17.194	18.634
60	13.170	16.813	34.543	88.306	26.754	19.171	21.346
120	17.199	20.419	25.650	32.922	8.764	16.023	20.119
180	8.910	11.259	15.727	35.452	9.306	11.535	12.036
240	9.481	11.948	16.627	37.835	9.823	13.906	12.806
300	10.005	12.582	17.461	40.073	10.317	16.017	13.517
360	10.483	13.162	18.232	42.164	10.787	17.867	14.169
420	10.914	13.689	18.937	44.110	11.233	19.457	14.762
480	11.298	14.161	19.578	45.910	11.655	20.788	15.297
540	11.635	14.580	20.154	47.564	12.053	21.858	15.772
600	11.926	14.944	20.666	49.072	12.427	22.668	16.188
660	12.170	15.255	21.113	50.434	12.777	23.217	16.546
720	12.368	15.512	21.496	51.650	13.104	23.507	16.844

ALL Pollutant Name: Oxides of Nitrogen Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.274	0.415	0.939	0.849	0.314	0.262	0.432
10	0.319	0.475	1.111	1.258	0.469	0.298	0.518
20	0.399	0.582	1.415	1.977	0.741	0.362	0.671
30	0.465	0.670	1.665	2.563	0.963	0.416	0.797
40	0.517	0.740	1.863	3.017	1.135	0.460	0.896
50	0.555	0.792	2.007	3.338	1.256	0.494	0.968
60	0.580	0.826	2.098	3.526	1.327	0.519	1.013
120	0.612	0.884	2.227	3.645	1.371	0.542	1.070
180	0.679	0.973	2.296	3.630	1.366	0.535	1.138
240	0.674	0.966	2.281	3.607	1.358	0.521	1.130
300	0.666	0.955	2.258	3.577	1.347	0.504	1.118

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

360	0.656	0.940	2.227	3.539	1.333	0.484	1.102
420	0.644	0.923	2.188	3.493	1.317	0.460	1.083
480	0.629	0.901	2.142	3.440	1.297	0.432	1.060
540	0.612	0.876	2.088	3.380	1.276	0.402	1.033
600	0.593	0.847	2.027	3.312	1.251	0.367	1.003
660	0.571	0.814	1.957	3.236	1.223	0.330	0.968
720	0.546	0.778	1.880	3.153	1.193	0.289	0.930

Pol l utant Name: Carbon Di oxi de Temperature: 37F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	11.061	13.502	17.654	8.647	2.372	23.908	12.593
10	13.450	16.346	22.052	12.119	3.585	26.467	15.431
20	18.569	22.465	31.383	18.986	5.986	31.458	21.471
30	24.145	29.159	41.427	25.747	8.355	36.280	27.996
40	30.176	36.428	52.185	32.405	10.690	40.932	35.005
50	36.662	44.272	63.656	38.958	12.992	45.415	42.499
60	43.605	52.692	75.841	45.406	15.262	49.729	50.478
120	91.057	110.911	156.205	73.613	25.150	69.619	103.842
180	104.180	126.879	179.408	84.426	29.145	71.731	118.823
240	117.031	142.533	202.038	94.602	32.904	73.720	133.462
300	129.609	157.872	224.096	104.140	36.428	75.588	147.758
360	141.913	172.897	245.582	113.041	39.716	77.334	161.713
420	153.945	187.608	266.495	121.304	42.768	78.957	175.326
480	165.704	202.004	286.836	128.930	45.585	80.459	188.597
540	177.190	216.086	306.604	135.917	48.166	81.839	201.525
600	188.403	229.854	325.800	142.268	50.511	83.097	214.112
660	199.344	243.307	344.424	147.981	52.621	84.233	226.357
720	210.011	256.446	362.475	153.056	54.495	85.247	238.259

Pol l utant Name: Sul fur Di oxi de Temperature: 37F Rel ati ve Humi di ty:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.001	0.001	0.000	0.001	0.000
30	0.000	0.000	0.001	0.001	0.000	0.001	0.000
40	0.000	0.001	0.001	0.001	0.000	0.001	0.001
50	0.001	0.001	0.001	0.002	0.001	0.001	0.001
60	0.001	0.001	0.001	0.002	0.001	0.001	0.001
120	0.001	0.001	0.002	0.001	0.000	0.001	0.001
180	0.001	0.001	0.002	0.001	0.000	0.001	0.001
240	0.001	0.002	0.002	0.002	0.000	0.001	0.002
300	0.001	0.002	0.002	0.002	0.001	0.001	0.002
360	0.002	0.002	0.003	0.002	0.001	0.001	0.002
420	0.002	0.002	0.003	0.002	0.001	0.001	0.002
480	0.002	0.002	0.003	0.002	0.001	0.001	0.002
540	0.002	0.002	0.003	0.002	0.001	0.001	0.002
600	0.002	0.002	0.003	0.002	0.001	0.001	0.002
660	0.002	0.003	0.004	0.002	0.001	0.001	0.002
720	0.002	0.003	0.004	0.002	0.001	0.001	0.003

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

ALL Pol l utant Name: PM10 Temperature: 37F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.000	0.013	0.001
10	0.001	0.002	0.002	0.001	0.000	0.012	0.002
20	0.002	0.004	0.004	0.002	0.001	0.009	0.003
30	0.003	0.006	0.005	0.003	0.001	0.007	0.004
40	0.004	0.008	0.007	0.003	0.001	0.006	0.006
50	0.005	0.009	0.008	0.004	0.001	0.004	0.007
60	0.006	0.011	0.009	0.004	0.002	0.004	0.008
120	0.009	0.016	0.013	0.006	0.002	0.009	0.011
180	0.009	0.017	0.014	0.006	0.002	0.014	0.012
240	0.010	0.018	0.015	0.006	0.002	0.019	0.013
300	0.011	0.019	0.016	0.007	0.003	0.023	0.014
360	0.011	0.020	0.017	0.007	0.003	0.026	0.014
420	0.011	0.021	0.017	0.007	0.003	0.029	0.015
480	0.012	0.021	0.018	0.007	0.003	0.031	0.015
540	0.012	0.022	0.018	0.008	0.003	0.033	0.016
600	0.012	0.022	0.019	0.008	0.003	0.034	0.016
660	0.013	0.023	0.019	0.008	0.003	0.035	0.017
720	0.013	0.023	0.019	0.008	0.003	0.035	0.017

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average San Francisco Basin Average Basin

Table 4: Hot Soak Emi ssi ons (grams/trip)

ALL Pol l utant Name: Reacti ve Org Gases Temperature: 37F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.059	0.057	0.028	0.013	0.022	0.119	0.053
10	0.109	0.105	0.052	0.023	0.041	0.221	0.097
20	0.186	0.180	0.089	0.040	0.070	0.377	0.166
30	0.239	0.232	0.115	0.052	0.090	0.486	0.213
40	0.258	0.251	0.125	0.056	0.098	0.527	0.230

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Wi nter

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Versi on : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Wi nter
 Area : San Franci sco

Year: 2010 -- Model Years 1966 to 2010 In cl usi ve -- Wi nter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Franci sco Basin Average Basin
 Average

Table 5a: Parti al Day Di urnal Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reacti ve Org Gases	Temperature: ALL						Rel ati ve Humi di ty:
ALL	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
Temp degF 37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Versi on : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Wi nter
 Area : San Franci sco

Year: 2010 -- Model Years 1966 to 2010 In cl usi ve -- Wi nter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Franci sco Basin Average Basin
 Average

Table 5b: Mul ti -Day Di urnal Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reacti ve Org Gases	Temperature: ALL						Rel ati ve Humi di ty:
ALL	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
Temp degF 37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Parti al Day Resti ng Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reacti ve Org Gases Temperature: ALL Rel ati ve Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Winter
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Mul ti -Day Resti ng Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reacti ve Org Gases Temperature: ALL Rel ati ve Humi di ty:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Versi on : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Wi nter
 Area : San Franci sco

 Year: 2010 -- Model Years 1966 to 2010 In cl usi ve -- Wi nter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Franci sco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

ALL Pollutant Name: Temperature: ALL Relative Humidity:

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.515	0.338	0.095	0.040	0.004	0.008	1.000
%TRIP	0.503	0.306	0.122	0.058	0.001	0.010	1.000
%VEH	0.537	0.326	0.081	0.022	0.001	0.032	1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Versi on : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Wi nter
 Area : San Franci sco

 Year: 2010 -- Model Years 1966 to 2010 In cl usi ve -- Wi nter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Franci sco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

ALL Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.026	0.497	0.255	0.167	0.184	0.082	0.214
2	0.031	0.263	0.136	0.092	0.100	0.122	0.123

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter

3	0.036	0.188	0.098	0.068	0.073	0.144	0.095
4	0.040	0.152	0.080	0.056	0.059	0.158	0.083
5	0.043	0.131	0.070	0.049	0.051	0.169	0.076
10	0.051	0.094	0.053	0.035	0.036	0.202	0.066
15	0.056	0.088	0.051	0.032	0.032	0.226	0.067
20	0.061	0.090	0.053	0.031	0.030	0.247	0.070
25	0.065	0.096	0.057	0.032	0.030	0.267	0.075
30	0.068	0.101	0.060	0.033	0.031	0.279	0.078
35	0.070	0.105	0.062	0.034	0.032	0.290	0.082
40	0.073	0.109	0.065	0.035	0.033	0.301	0.085
45	0.075	0.113	0.067	0.036	0.034	0.311	0.087
50	0.077	0.117	0.069	0.037	0.035	0.318	0.090
55	0.078	0.121	0.071	0.038	0.036	0.324	0.092
60	0.079	0.124	0.073	0.039	0.037	0.330	0.094

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 1: Running Exhaust Emissions (grams/mile;

grams/minute-hour)

Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	3.133	6.693	0.000	0.000	0.529
1	0.052	0.096	0.133	1.134	1.584	5.206	0.163
2	0.052	0.096	0.133	1.134	1.584	5.206	0.163
3	0.049	0.091	0.127	1.134	1.584	5.206	0.159
4	0.044	0.081	0.116	1.134	1.584	5.206	0.152
5	0.040	0.073	0.106	1.134	1.584	5.206	0.146

Pollutant Name: Carbon Monoxide Temperature: 37F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	19.833	46.635	0.000	0.000	3.507
1	0.959	1.601	2.073	4.769	10.097	29.042	1.682
2	0.959	1.601	2.073	4.769	10.097	29.042	1.682
3	0.949	1.585	2.055	4.769	10.097	29.042	1.670

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

4	0.931	1.554	2.020	4.769	10.097	29.042	1.647
5	0.913	1.523	1.986	4.769	10.097	29.042	1.624

50% Pol l utant Name: Oxi des of Ni trogen Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	4.514	80.794	0.000	0.000	3.415
1	0.098	0.185	0.317	4.047	21.423	1.525	0.382
2	0.098	0.185	0.317	4.047	21.423	1.525	0.382
3	0.097	0.182	0.314	4.047	21.423	1.525	0.380
4	0.094	0.177	0.308	4.047	21.423	1.525	0.376
5	0.091	0.172	0.302	4.047	21.423	1.525	0.373

50% Pol l utant Name: Carbon Di oxi de Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	914.191	4705.922	0.000	0.000	256.961
1	1100.856	1387.851	1898.760	2625.450	2469.849	266.367	1323.080
2	1100.856	1387.851	1898.760	2625.450	2469.849	266.367	1323.080
3	1066.666	1344.755	1851.808	2625.450	2469.849	266.367	1286.445
4	1002.556	1263.946	1763.769	2625.450	2469.849	266.367	1217.751
5	943.702	1189.762	1682.949	2625.450	2469.849	266.367	1154.690

50% Pol l utant Name: Sul fur Di oxi de Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.045	0.000	0.000	0.002
1	0.011	0.013	0.018	0.025	0.024	0.003	0.013
2	0.011	0.013	0.018	0.025	0.024	0.003	0.013
3	0.010	0.013	0.018	0.025	0.024	0.003	0.012
4	0.010	0.012	0.017	0.025	0.024	0.003	0.012
5	0.009	0.011	0.016	0.025	0.024	0.003	0.011

50% Pol l utant Name: PM10 Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.046	0.420	0.000	0.000	0.020
1	0.066	0.140	0.159	0.197	0.553	0.030	0.105
2	0.066	0.140	0.159	0.197	0.553	0.030	0.105
3	0.063	0.133	0.152	0.197	0.553	0.030	0.101
4	0.057	0.121	0.139	0.197	0.553	0.030	0.093
5	0.052	0.110	0.128	0.197	0.553	0.030	0.085

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

50% Pol l utant Name: PM10 - Tire Wear Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.022	0.009	0.004	0.009
2	0.008	0.008	0.009	0.022	0.009	0.004	0.009
3	0.008	0.008	0.009	0.022	0.009	0.004	0.009
4	0.008	0.008	0.009	0.022	0.009	0.004	0.009
5	0.008	0.008	0.009	0.022	0.009	0.004	0.009

50% Pol l utant Name: PM10 - Break Wear Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.019	0.013	0.006	0.013
2	0.013	0.013	0.013	0.019	0.013	0.006	0.013
3	0.013	0.013	0.013	0.019	0.013	0.006	0.013
4	0.013	0.013	0.013	0.019	0.013	0.006	0.013
5	0.013	0.013	0.013	0.019	0.013	0.006	0.013

50% Pol l utant Name: Gasol i ne - mi /gal Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	8.036	6.368	4.505	3.514	3.488	27.048	7.279
2	8.036	6.368	4.505	3.514	3.488	27.048	7.279
3	8.294	6.572	4.633	3.514	3.488	27.048	7.502
4	8.824	6.991	4.895	3.514	3.488	27.048	7.962
5	9.374	7.427	5.166	3.514	3.488	27.048	8.439

50% Pol l utant Name: Di esel - mi /gal Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.461	4.711	4.103	0.000	6.750
2	29.156	29.156	19.461	4.711	4.103	0.000	6.750
3	29.156	29.156	19.461	4.711	4.103	0.000	6.750
4	29.156	29.156	19.461	4.711	4.103	0.000	6.750
5	29.156	29.156	19.461	4.711	4.103	0.000	6.750

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 2: Starti ng Emi ssi ons (grams/tri p)

ALL Poll utant Name: Reacti ve Org Gases Temperature: 37F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.010	0.018	0.052	0.089	0.165	1.640	0.038
10	0.019	0.036	0.104	0.174	0.322	1.965	0.063
20	0.037	0.070	0.203	0.330	0.611	2.596	0.110
30	0.054	0.102	0.298	0.468	0.866	3.201	0.154
40	0.070	0.132	0.389	0.588	1.087	3.779	0.195
50	0.085	0.161	0.475	0.690	1.275	4.331	0.233
60	0.099	0.188	0.558	0.773	1.429	4.725	0.267
120	0.157	0.297	0.903	0.505	0.933	3.894	0.349
180	0.070	0.134	0.512	0.536	0.990	2.697	0.197
240	0.074	0.142	0.545	0.566	1.045	2.870	0.209
300	0.078	0.150	0.577	0.594	1.099	3.040	0.221
360	0.082	0.159	0.609	0.622	1.150	3.207	0.233
420	0.087	0.167	0.642	0.649	1.200	3.371	0.245
480	0.091	0.175	0.674	0.675	1.248	3.531	0.256
540	0.095	0.183	0.706	0.700	1.294	3.688	0.268
600	0.099	0.191	0.738	0.724	1.338	3.842	0.279
660	0.103	0.199	0.769	0.747	1.381	3.992	0.290
720	0.107	0.207	0.801	0.769	1.421	4.139	0.302

ALL Poll utant Name: Carbon Monoxi de Temperature: 37F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.174	0.312	1.066	2.148	2.468	4.961	0.487
10	0.344	0.616	2.108	4.209	4.836	7.505	0.938
20	0.671	1.202	4.125	8.069	9.271	12.294	1.800
30	0.982	1.759	6.049	11.580	13.304	16.687	2.610
40	1.277	2.286	7.881	14.742	16.937	20.684	3.367
50	1.556	2.783	9.621	17.555	20.168	24.283	4.071
60	1.818	3.251	11.269	20.018	22.999	27.486	4.723
120	2.881	5.060	17.498	8.111	9.319	32.514	5.942
180	1.365	2.427	6.620	8.348	9.591	13.050	2.853
240	1.483	2.635	7.218	8.593	9.872	14.388	3.077

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

300	1.588	2.818	7.744	8.846	10.163	15.610	3.277
360	1.678	2.976	8.196	9.106	10.462	16.717	3.453
420	1.754	3.111	8.576	9.375	10.770	17.710	3.604
480	1.816	3.221	8.882	9.651	11.088	18.587	3.731
540	1.864	3.306	9.116	9.935	11.414	19.349	3.834
600	1.898	3.367	9.277	10.227	11.749	19.996	3.913
660	1.918	3.404	9.365	10.526	12.094	20.529	3.967
720	1.924	3.416	9.380	10.834	12.447	20.946	3.998

ALL Pollutant Name: Oxides of Nitrogen Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.039	0.087	0.669	0.223	0.490	0.193	0.144
10	0.041	0.092	0.696	0.336	0.738	0.241	0.157
20	0.045	0.101	0.745	0.535	1.174	0.327	0.180
30	0.049	0.108	0.788	0.696	1.529	0.398	0.200
40	0.052	0.114	0.826	0.821	1.804	0.454	0.215
50	0.054	0.119	0.857	0.909	1.998	0.495	0.228
60	0.056	0.123	0.883	0.961	2.111	0.521	0.236
120	0.061	0.135	0.971	0.993	2.180	0.534	0.255
180	0.068	0.151	1.003	0.989	2.172	0.537	0.267
240	0.067	0.150	0.995	0.983	2.160	0.529	0.265
300	0.067	0.148	0.982	0.976	2.143	0.518	0.262
360	0.065	0.145	0.964	0.966	2.123	0.505	0.258
420	0.064	0.142	0.941	0.955	2.098	0.490	0.252
480	0.062	0.138	0.913	0.942	2.069	0.472	0.246
540	0.060	0.133	0.879	0.927	2.035	0.453	0.238
600	0.058	0.127	0.840	0.909	1.998	0.431	0.229
660	0.055	0.121	0.796	0.890	1.956	0.407	0.219
720	0.052	0.114	0.747	0.869	1.910	0.380	0.208

ALL Pollutant Name: Carbon Dioxide Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.277	15.416	21.663	2.807	2.191	13.101	13.845
10	13.748	17.292	24.370	5.598	4.370	15.292	15.674
20	17.195	21.678	30.668	11.135	8.692	19.594	19.885
30	21.316	26.907	38.144	16.609	12.965	23.790	24.832
40	26.111	32.979	46.799	22.021	17.190	27.880	30.517
50	31.579	39.894	56.633	27.370	21.366	31.864	36.939
60	37.721	47.653	67.646	32.658	25.494	35.741	44.098
120	88.187	111.158	157.210	55.546	43.360	53.147	101.410
180	100.064	126.160	178.500	65.623	51.227	57.416	115.213
240	111.930	141.142	199.744	75.106	58.629	61.434	128.962
300	123.786	156.102	220.943	83.994	65.567	65.202	142.656
360	135.631	171.042	242.096	92.287	72.041	68.719	156.297
420	147.465	185.962	263.203	99.985	78.050	71.986	169.884
480	159.288	200.861	284.265	107.088	83.595	75.002	183.416
540	171.100	215.739	305.280	113.597	88.676	77.767	196.895
600	182.902	230.596	326.250	119.511	93.292	80.282	210.320
660	194.692	245.433	347.174	124.830	97.444	82.546	223.690
720	206.472	260.249	368.052	129.554	101.132	84.560	237.007

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

ALL Pol l utant Name: Sul fur Di oxi de Temperature: 37F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.001	0.000
40	0.000	0.000	0.001	0.000	0.000	0.001	0.000
50	0.000	0.000	0.001	0.001	0.001	0.001	0.000
60	0.000	0.001	0.001	0.001	0.001	0.001	0.001
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.001	0.001	0.001
240	0.001	0.001	0.002	0.001	0.001	0.001	0.001
300	0.001	0.002	0.002	0.001	0.001	0.001	0.001
360	0.001	0.002	0.002	0.001	0.001	0.001	0.002
420	0.001	0.002	0.003	0.001	0.001	0.001	0.002
480	0.002	0.002	0.003	0.001	0.001	0.001	0.002
540	0.002	0.002	0.003	0.001	0.001	0.001	0.002
600	0.002	0.002	0.003	0.001	0.001	0.001	0.002
660	0.002	0.002	0.003	0.001	0.001	0.001	0.002
720	0.002	0.003	0.004	0.001	0.001	0.001	0.002

ALL Pol l utant Name: PM10 Temperature: 37F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.001	0.001	0.000	0.000	0.007	0.001
10	0.001	0.002	0.002	0.001	0.001	0.006	0.001
20	0.002	0.004	0.004	0.001	0.001	0.005	0.003
30	0.003	0.006	0.005	0.002	0.002	0.004	0.004
40	0.003	0.007	0.007	0.003	0.002	0.003	0.005
50	0.004	0.009	0.009	0.003	0.003	0.003	0.006
60	0.005	0.010	0.010	0.003	0.003	0.003	0.007
120	0.008	0.017	0.017	0.005	0.005	0.006	0.012
180	0.009	0.019	0.019	0.005	0.005	0.008	0.013
240	0.010	0.021	0.020	0.005	0.005	0.010	0.014
300	0.011	0.022	0.022	0.005	0.005	0.012	0.015
360	0.012	0.024	0.023	0.005	0.005	0.014	0.016
420	0.012	0.025	0.024	0.005	0.005	0.015	0.017
480	0.013	0.026	0.025	0.006	0.005	0.017	0.018
540	0.013	0.027	0.026	0.006	0.006	0.018	0.018
600	0.013	0.027	0.026	0.006	0.006	0.018	0.018
660	0.013	0.027	0.026	0.006	0.006	0.019	0.019
720	0.013	0.027	0.026	0.006	0.006	0.019	0.019

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : San Francisco

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.015	0.032	0.026	0.003	0.012	0.069	0.021
10	0.027	0.060	0.048	0.005	0.022	0.128	0.039
20	0.046	0.102	0.082	0.009	0.038	0.219	0.067
30	0.059	0.130	0.105	0.011	0.048	0.282	0.085
40	0.064	0.140	0.113	0.012	0.052	0.306	0.092

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : San Francisco

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

ALL Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Wi nter

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Mul ti -Day Di urnal Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reactive Org Gases	Temperature: ALL						Rel ative Humi di ty:
ALL	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
Temp degF 37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Parti al Day Resti ng Loss Emi ssi ons

(grams/hour)

Pol l utant Name: Reactive Org Gases	Temperature: ALL						Rel ative Humi di ty:
ALL	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
Temp degF 37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

ALL	Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
ALL	37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

ALL	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.526	0.336	0.089	0.037	0.004	0.008	1.000
%TRIP	0.509	0.299	0.124	0.057	0.001	0.010	1.000
%VEH	0.540	0.324	0.082	0.021	0.001	0.032	1.000

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Winter
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporati ve Runni ng Loss Emi ssi ons

(grams/mi nute)

Pol lutant Name: Reacti ve Org Gases Temperature: 37F Rel ati ve Humi di ty:
 ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.007	0.193	0.209	0.046	0.267	0.004	0.090
2	0.006	0.101	0.110	0.024	0.138	0.038	0.049
3	0.007	0.073	0.079	0.017	0.096	0.057	0.036
4	0.008	0.060	0.066	0.014	0.075	0.069	0.031
5	0.009	0.053	0.058	0.012	0.063	0.077	0.029
10	0.012	0.039	0.043	0.009	0.039	0.100	0.024
15	0.013	0.036	0.040	0.008	0.033	0.113	0.024
20	0.014	0.036	0.040	0.008	0.031	0.124	0.024
25	0.015	0.037	0.041	0.008	0.031	0.133	0.025
30	0.016	0.038	0.042	0.009	0.033	0.140	0.027
35	0.016	0.040	0.044	0.009	0.034	0.147	0.028
40	0.017	0.041	0.045	0.010	0.035	0.154	0.029
45	0.018	0.043	0.047	0.010	0.037	0.160	0.030
50	0.018	0.044	0.048	0.010	0.038	0.166	0.031
55	0.019	0.045	0.050	0.010	0.039	0.172	0.031
60	0.019	0.046	0.051	0.011	0.040	0.177	0.032

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Wi nter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Wi nter
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Tabl e 1: Runni ng Exhaust Emi ssi ons (grams/mi l e;

grams/i dl e-hour)

50% Pol l utant Name: Reacti ve Org Gases Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	3.148	6.692	0.000	0.000	0.530
1	0.050	0.091	0.128	1.118	1.519	5.206	0.158
2	0.050	0.091	0.128	1.118	1.519	5.206	0.158
3	0.047	0.086	0.122	1.118	1.519	5.206	0.155
4	0.042	0.077	0.111	1.118	1.519	5.206	0.148
5	0.038	0.069	0.102	1.118	1.519	5.206	0.143

50% Pol l utant Name: Carbon Monoxi de Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	19.871	46.621	0.000	0.000	3.507
1	0.930	1.538	2.030	4.715	9.289	29.030	1.636
2	0.930	1.538	2.030	4.715	9.289	29.030	1.636
3	0.921	1.522	2.012	4.715	9.289	29.030	1.624
4	0.903	1.493	1.978	4.715	9.289	29.030	1.602
5	0.886	1.464	1.945	4.715	9.289	29.030	1.581

50% Pol l utant Name: Oxi des of Ni trogen Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	4.505	80.712	0.000	0.000	3.405
1	0.095	0.175	0.302	3.968	20.122	1.526	0.368
2	0.095	0.175	0.302	3.968	20.122	1.526	0.368
3	0.093	0.172	0.299	3.968	20.122	1.526	0.366
4	0.091	0.167	0.293	3.968	20.122	1.526	0.362
5	0.088	0.162	0.288	3.968	20.122	1.526	0.358

50% Pol l utant Name: Carbon Di oxi de Temperature: 37F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	914.105	4702.639	0.000	0.000	256.501
1	1100.741	1388.057	1899.060	2621.551	2451.380	266.383	1322.820
2	1100.741	1388.057	1899.060	2621.551	2451.380	266.383	1322.820
3	1066.555	1344.953	1852.104	2621.551	2451.380	266.383	1286.180
4	1002.451	1264.130	1764.058	2621.551	2451.380	266.383	1217.478
5	943.603	1189.933	1683.231	2621.551	2451.380	266.383	1154.408

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter

50% Pollutant Name: Sul fur Di oxide Temperature: 37F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.045	0.000	0.000	0.002
1	0.011	0.013	0.018	0.025	0.023	0.003	0.013
2	0.011	0.013	0.018	0.025	0.023	0.003	0.013
3	0.010	0.013	0.018	0.025	0.023	0.003	0.012
4	0.010	0.012	0.017	0.025	0.023	0.003	0.012
5	0.009	0.011	0.016	0.025	0.023	0.003	0.011

50% Pollutant Name: PM10 Temperature: 37F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.046	0.416	0.000	0.000	0.020
1	0.066	0.139	0.159	0.195	0.527	0.030	0.105
2	0.066	0.139	0.159	0.195	0.527	0.030	0.105
3	0.063	0.133	0.152	0.195	0.527	0.030	0.101
4	0.057	0.121	0.139	0.195	0.527	0.030	0.092
5	0.052	0.110	0.128	0.195	0.527	0.030	0.085

50% Pollutant Name: PM10 - Tire Wear Temperature: 37F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.008	0.008	0.009	0.022	0.009	0.004	0.009
2	0.008	0.008	0.009	0.022	0.009	0.004	0.009
3	0.008	0.008	0.009	0.022	0.009	0.004	0.009
4	0.008	0.008	0.009	0.022	0.009	0.004	0.009
5	0.008	0.008	0.009	0.022	0.009	0.004	0.009

50% Pollutant Name: PM10 - Break Wear Temperature: 37F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.013	0.013	0.013	0.019	0.013	0.006	0.013
2	0.013	0.013	0.013	0.019	0.013	0.006	0.013
3	0.013	0.013	0.013	0.019	0.013	0.006	0.013
4	0.013	0.013	0.013	0.019	0.013	0.006	0.013
5	0.013	0.013	0.013	0.019	0.013	0.006	0.013

50% Pollutant Name: Gasoline - mi/gal Temperature: 37F Relative Humidity:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	8.038	6.368	4.506	3.515	3.492	27.048	7.279
2	8.038	6.368	4.506	3.515	3.492	27.048	7.279
3	8.295	6.572	4.633	3.515	3.492	27.048	7.503
4	8.825	6.992	4.895	3.515	3.492	27.048	7.963
5	9.375	7.427	5.167	3.515	3.492	27.048	8.440

50% Pollutant Name: Diesel - mi/gal Temperature: 37F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.457	4.719	4.145	0.000	6.738
2	29.156	29.156	19.457	4.719	4.145	0.000	6.738
3	29.156	29.156	19.457	4.719	4.145	0.000	6.738
4	29.156	29.156	19.457	4.719	4.145	0.000	6.738
5	29.156	29.156	19.457	4.719	4.145	0.000	6.738

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average San Francisco Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.009	0.017	0.050	0.086	0.168	1.637	0.037
10	0.017	0.033	0.100	0.168	0.327	1.962	0.060
20	0.034	0.064	0.196	0.319	0.619	2.594	0.105
30	0.049	0.094	0.288	0.452	0.878	3.199	0.147
40	0.064	0.122	0.377	0.568	1.102	3.777	0.186
50	0.077	0.149	0.461	0.666	1.293	4.329	0.223
60	0.090	0.174	0.542	0.747	1.449	4.723	0.255
120	0.146	0.281	0.891	0.488	0.946	3.896	0.336
180	0.064	0.126	0.503	0.517	1.004	2.697	0.190

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

240	0.069	0.134	0.535	0.546	1.060	2.870	0.201
300	0.073	0.142	0.567	0.574	1.114	3.040	0.213
360	0.077	0.150	0.599	0.601	1.166	3.207	0.225
420	0.081	0.157	0.631	0.627	1.217	3.371	0.236
480	0.085	0.165	0.662	0.652	1.265	3.531	0.247
540	0.088	0.173	0.694	0.676	1.312	3.688	0.259
600	0.092	0.181	0.726	0.699	1.357	3.841	0.270
660	0.096	0.188	0.757	0.722	1.400	3.992	0.281
720	0.100	0.196	0.788	0.743	1.442	4.139	0.291

ALL Pollutant Name: Carbon Monoxide Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.164	0.294	1.049	2.075	2.415	4.959	0.470
10	0.324	0.580	2.077	4.065	4.733	7.505	0.905
20	0.633	1.134	4.064	7.793	9.073	12.300	1.737
30	0.927	1.660	5.963	11.184	13.020	16.697	2.519
40	1.206	2.159	7.772	14.237	16.575	20.697	3.250
50	1.470	2.630	9.492	16.954	19.737	24.301	3.932
60	1.720	3.075	11.123	19.333	22.507	27.507	4.564
120	2.748	4.838	17.439	7.833	9.119	32.557	5.786
180	1.301	2.313	6.546	8.062	9.386	13.055	2.761
240	1.415	2.514	7.143	8.299	9.661	14.390	2.981
300	1.516	2.692	7.667	8.543	9.946	15.611	3.177
360	1.604	2.845	8.117	8.795	10.238	16.717	3.348
420	1.677	2.974	8.495	9.054	10.540	17.708	3.496
480	1.737	3.080	8.799	9.320	10.851	18.584	3.620
540	1.782	3.161	9.031	9.595	11.170	19.346	3.719
600	1.815	3.219	9.189	9.877	11.498	19.992	3.795
660	1.833	3.252	9.274	10.166	11.835	20.525	3.847
720	1.837	3.262	9.285	10.463	12.181	20.942	3.875

ALL Pollutant Name: Oxides of Nitrogen Temperature: 37F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.037	0.082	0.667	0.215	0.493	0.193	0.141
10	0.039	0.087	0.692	0.323	0.742	0.241	0.153
20	0.042	0.094	0.737	0.514	1.180	0.327	0.175
30	0.045	0.101	0.778	0.670	1.538	0.398	0.193
40	0.048	0.106	0.813	0.790	1.814	0.454	0.208
50	0.050	0.111	0.843	0.875	2.009	0.495	0.219
60	0.051	0.114	0.867	0.924	2.122	0.521	0.227
120	0.056	0.125	0.956	0.955	2.192	0.534	0.246
180	0.063	0.140	0.987	0.951	2.184	0.537	0.257
240	0.063	0.139	0.979	0.946	2.172	0.529	0.255
300	0.062	0.137	0.966	0.939	2.155	0.518	0.252
360	0.061	0.135	0.948	0.930	2.134	0.505	0.248
420	0.059	0.131	0.925	0.919	2.109	0.490	0.243
480	0.058	0.128	0.897	0.906	2.080	0.472	0.236
540	0.055	0.123	0.864	0.891	2.046	0.453	0.229
600	0.053	0.118	0.825	0.875	2.009	0.431	0.220
660	0.050	0.112	0.782	0.857	1.966	0.407	0.210
720	0.048	0.105	0.733	0.836	1.920	0.380	0.199

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM10_ROG_Wi nter

ALL Poll utant Name: Carbon Di oxi de Temperature: 37F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.293	15.448	21.726	2.805	2.281	13.075	13.871
10	13.757	17.314	24.413	5.594	4.549	15.265	15.690
20	17.192	21.680	30.676	11.126	9.047	19.565	19.884
30	21.303	26.892	38.124	16.596	13.495	23.760	24.818
40	26.088	32.951	46.756	22.004	17.892	27.848	30.491
50	31.549	39.856	56.573	27.349	22.239	31.830	36.904
60	37.685	47.607	67.574	32.633	26.535	35.706	44.056
120	88.176	111.176	157.270	55.503	45.132	53.106	101.418
180	100.043	126.165	178.540	65.572	53.320	57.380	115.209
240	111.901	141.136	199.770	75.048	61.024	61.403	128.949
300	123.750	156.091	220.962	83.929	68.246	65.175	142.637
360	135.590	171.028	242.114	92.215	74.984	68.696	156.275
420	147.422	185.949	263.226	99.907	81.239	71.966	169.861
480	159.244	200.852	284.299	107.005	87.010	74.986	183.397
540	171.059	215.738	305.333	113.509	92.299	77.754	196.881
600	182.864	230.607	326.328	119.418	97.104	80.272	210.315
660	194.661	245.459	347.283	124.733	101.426	82.539	223.697
720	206.449	260.294	368.199	129.454	105.264	84.555	237.028

ALL Poll utant Name: Sul fur Di oxi de Temperature: 37F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.001	0.000
40	0.000	0.000	0.001	0.000	0.000	0.001	0.000
50	0.000	0.000	0.001	0.001	0.001	0.001	0.000
60	0.000	0.001	0.001	0.001	0.001	0.001	0.000
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.001	0.001	0.001
240	0.001	0.001	0.002	0.001	0.001	0.001	0.001
300	0.001	0.002	0.002	0.001	0.001	0.001	0.001
360	0.001	0.002	0.002	0.001	0.001	0.001	0.002
420	0.001	0.002	0.003	0.001	0.001	0.001	0.002
480	0.002	0.002	0.003	0.001	0.001	0.001	0.002
540	0.002	0.002	0.003	0.001	0.001	0.001	0.002
600	0.002	0.002	0.003	0.001	0.001	0.001	0.002
660	0.002	0.002	0.003	0.001	0.001	0.001	0.002
720	0.002	0.003	0.004	0.001	0.001	0.001	0.002

ALL Poll utant Name: PM10 Temperature: 37F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM10	ROG	Winter
5	0.000	0.001	0.001	0.000	0.000	0.007	0.001
10	0.001	0.002	0.002	0.001	0.001	0.006	0.001
20	0.002	0.004	0.004	0.001	0.001	0.005	0.003
30	0.003	0.006	0.005	0.002	0.002	0.004	0.004
40	0.003	0.007	0.007	0.003	0.003	0.003	0.005
50	0.004	0.009	0.009	0.003	0.003	0.003	0.006
60	0.005	0.010	0.010	0.003	0.003	0.003	0.007
120	0.008	0.017	0.017	0.005	0.005	0.006	0.012
180	0.009	0.019	0.019	0.005	0.005	0.008	0.013
240	0.010	0.021	0.020	0.005	0.005	0.010	0.014
300	0.011	0.022	0.022	0.005	0.005	0.012	0.015
360	0.012	0.024	0.023	0.005	0.005	0.014	0.016
420	0.012	0.025	0.024	0.005	0.005	0.015	0.017
480	0.012	0.026	0.025	0.006	0.006	0.017	0.018
540	0.013	0.026	0.026	0.006	0.006	0.018	0.018
600	0.013	0.027	0.026	0.006	0.006	0.018	0.018
660	0.013	0.027	0.026	0.006	0.006	0.019	0.019
720	0.013	0.027	0.026	0.006	0.006	0.019	0.019

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2008/04/14 13:42:37
Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
Season : Winter
Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
Average

Table 4: Hot Soak Emissions (grams/trip)

Time min	Pollutant Name: Reactive Org Gases				Temperature: 37F Relative Humidity:		
	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.014	0.031	0.026	0.003	0.012	0.069	0.020
10	0.025	0.057	0.047	0.005	0.022	0.128	0.037
20	0.043	0.097	0.080	0.009	0.037	0.219	0.063
30	0.054	0.124	0.103	0.011	0.047	0.282	0.081
40	0.059	0.134	0.111	0.012	0.051	0.306	0.088

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter
 Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : San Francisco

 Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions
 (grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : San Francisco

 Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions
 (grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM10_ROG_Winter
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : San Francisco

 Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.526	0.336	0.089	0.037	0.004	0.008	1.000
%TRIP	0.509	0.299	0.124	0.057	0.001	0.010	1.000
%VEH	0.540	0.324	0.082	0.021	0.001	0.032	1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Winter
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/14 13:42:37
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Winter
 Area : San Francisco

 Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Winter
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 37F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.007	0.179	0.202	0.044	0.264	0.004	0.084
2	0.006	0.094	0.106	0.023	0.136	0.038	0.046
3	0.006	0.068	0.077	0.016	0.094	0.057	0.034
4	0.008	0.056	0.063	0.013	0.074	0.069	0.030
5	0.009	0.050	0.056	0.012	0.062	0.077	0.027
10	0.011	0.037	0.042	0.008	0.039	0.100	0.023
15	0.013	0.035	0.039	0.008	0.033	0.113	0.023
20	0.014	0.034	0.039	0.008	0.031	0.124	0.024
25	0.015	0.035	0.040	0.008	0.031	0.133	0.025

Vehicle Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34_PM10	ROG	Winter	
30	0.016	0.037	0.041	0.009	0.033	0.140	0.026
35	0.016	0.038	0.043	0.009	0.034	0.147	0.027
40	0.017	0.040	0.045	0.009	0.036	0.154	0.028
45	0.017	0.041	0.046	0.010	0.037	0.160	0.029
50	0.018	0.042	0.047	0.010	0.038	0.166	0.030
55	0.018	0.044	0.049	0.010	0.040	0.172	0.031
60	0.019	0.045	0.050	0.010	0.041	0.177	0.031

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM2-5_CH4_Summer
 Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 1: Running Exhaust Emissions (grams/mile;
 grams/minute-hour)

Pollutant Name: Methane Temperature: 85F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.143	0.407	0.000	0.000	0.030
1	0.109	0.115	0.106	0.310	0.151	0.304	0.121
2	0.109	0.115	0.106	0.310	0.151	0.304	0.121
3	0.107	0.112	0.104	0.310	0.151	0.304	0.118
4	0.102	0.107	0.100	0.310	0.151	0.304	0.114
5	0.097	0.103	0.097	0.310	0.151	0.304	0.109

Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	20.655	38.086	0.000	0.000	3.558
1	9.042	11.357	8.677	26.388	23.734	37.975	10.783
2	9.042	11.357	8.677	26.388	23.734	37.975	10.783
3	8.865	11.130	8.570	26.388	23.734	37.975	10.605
4	8.532	10.701	8.367	26.388	23.734	37.975	10.269
5	8.222	10.302	8.177	26.388	23.734	37.975	9.957

Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	5.222	78.377	0.000	0.000	3.685
1	0.439	0.724	1.141	23.122	30.800	0.799	1.640
2	0.439	0.724	1.141	23.122	30.800	0.799	1.640
3	0.433	0.712	1.131	23.122	30.800	0.799	1.631
4	0.420	0.689	1.111	23.122	30.800	0.799	1.615
5	0.408	0.668	1.092	23.122	30.800	0.799	1.600

Pollutant Name: Carbon Dioxide Temperature: 85F Relative Humidity:

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	898.979	5095.515	0.000	0.000	294.170
1	1328.595	1608.835	2158.679	2700.730	2662.439	231.618	1557.195
2	1328.595	1608.835	2158.679	2700.730	2662.439	231.618	1557.195
3	1291.553	1563.897	2108.705	2700.730	2662.439	231.618	1518.125
4	1222.095	1479.635	2015.000	2700.730	2662.439	231.618	1444.866
5	1158.332	1402.281	1928.977	2700.730	2662.439	231.618	1377.613

Pol l utant Name: Sul fur Di oxi de Temperature: 85F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.049	0.000	0.000	0.003
1	0.013	0.016	0.021	0.026	0.026	0.003	0.015
2	0.013	0.016	0.021	0.026	0.026	0.003	0.015
3	0.013	0.015	0.020	0.026	0.026	0.003	0.015
4	0.012	0.014	0.019	0.026	0.026	0.003	0.014
5	0.011	0.014	0.019	0.026	0.026	0.003	0.013

Pol l utant Name: PM2. 5 Temperature: 85F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.057	1.110	0.000	0.000	0.051
1	0.059	0.100	0.103	1.496	0.786	0.046	0.138
2	0.059	0.100	0.103	1.496	0.786	0.046	0.138
3	0.056	0.096	0.099	1.496	0.786	0.046	0.135
4	0.051	0.087	0.091	1.496	0.786	0.046	0.129
5	0.047	0.080	0.084	1.496	0.786	0.046	0.123

Pol l utant Name: PM2. 5 - Ti re Wear Temperature: 85F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.002	0.002	0.006	0.002	0.001	0.002
2	0.002	0.002	0.002	0.006	0.002	0.001	0.002
3	0.002	0.002	0.002	0.006	0.002	0.001	0.002
4	0.002	0.002	0.002	0.006	0.002	0.001	0.002
5	0.002	0.002	0.002	0.006	0.002	0.001	0.002

Pol l utant Name: PM2. 5 - Break Wear Temperature: 85F Rel ati ve Humi di ty:
50%

Speed

Vehi cle MPH	Queui ng LDA	Emi ssi ons_SF LDT	Bay Area MDT	Basi n_2008-10_2033-34_PM2-5_CH4_Summer HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.005	0.005	0.005	0.009	0.005	0.003	0.005
2	0.005	0.005	0.005	0.009	0.005	0.003	0.005
3	0.005	0.005	0.005	0.009	0.005	0.003	0.005
4	0.005	0.005	0.005	0.009	0.005	0.003	0.005
5	0.005	0.005	0.005	0.009	0.005	0.003	0.005

50% Pollutant Name: Gasol ine - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.582	5.377	3.858	3.319	3.294	28.824	6.056
2	6.582	5.377	3.858	3.319	3.294	28.824	6.056
3	6.771	5.531	3.954	3.319	3.294	28.824	6.221
4	7.155	5.847	4.151	3.319	3.294	28.824	6.556
5	7.548	6.169	4.352	3.319	3.294	28.824	6.900

50% Pollutant Name: Di esel - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	27.923	29.002	19.621	4.553	3.759	0.000	9.704
2	27.923	29.002	19.621	4.553	3.759	0.000	9.704
3	27.923	29.002	19.621	4.553	3.759	0.000	9.704
4	27.923	29.002	19.621	4.553	3.759	0.000	9.704
5	27.923	29.002	19.621	4.553	3.759	0.000	9.704

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average San Francisco Basin Average Basin

Table 2: Start ing Emi ssi ons (grams/tri p)

Pollutant Name: Methane Temperature: 85F Rel ati ve Humi di ty:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.006	0.005	0.008	0.037	0.008	0.083	0.008
10	0.008	0.008	0.014	0.047	0.010	0.085	0.012
20	0.014	0.014	0.024	0.065	0.016	0.091	0.019
30	0.019	0.019	0.033	0.083	0.020	0.099	0.025
40	0.023	0.023	0.042	0.099	0.025	0.109	0.031
50	0.027	0.027	0.049	0.114	0.029	0.122	0.036
60	0.030	0.030	0.055	0.126	0.032	0.128	0.040
120	0.040	0.041	0.073	0.149	0.038	0.147	0.052
180	0.045	0.046	0.079	0.160	0.040	0.160	0.057
240	0.048	0.049	0.083	0.170	0.043	0.172	0.061
300	0.050	0.052	0.088	0.179	0.045	0.184	0.064
360	0.053	0.055	0.092	0.189	0.048	0.196	0.068
420	0.055	0.057	0.097	0.198	0.050	0.208	0.071
480	0.058	0.060	0.101	0.207	0.052	0.220	0.074
540	0.060	0.062	0.105	0.216	0.054	0.232	0.077
600	0.063	0.065	0.109	0.225	0.056	0.243	0.080
660	0.065	0.067	0.113	0.233	0.058	0.255	0.083
720	0.067	0.069	0.117	0.241	0.060	0.267	0.086

Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.761	0.807	1.444	7.111	1.232	5.735	1.281
10	1.137	1.262	2.428	9.098	1.802	5.390	1.843
20	1.852	2.127	4.288	12.875	2.876	4.812	2.912
30	2.519	2.930	6.003	16.391	3.864	4.382	3.906
40	3.136	3.673	7.574	19.645	4.764	4.102	4.825
50	3.705	4.355	9.000	22.637	5.577	3.970	5.669
60	4.225	4.976	10.282	25.367	6.303	3.987	6.438
120	6.684	8.154	14.976	36.204	8.797	7.479	9.893
180	8.604	10.206	16.689	38.983	9.272	9.766	11.882
240	9.143	10.817	17.566	41.601	9.731	11.836	12.621
300	9.640	11.382	18.391	44.059	10.174	13.677	13.308
360	10.096	11.903	19.164	46.357	10.600	15.290	13.942
420	10.511	12.378	19.884	48.496	11.010	16.674	14.523
480	10.885	12.807	20.551	50.474	11.404	17.830	15.052
540	11.217	13.192	21.165	52.291	11.782	18.757	15.528
600	11.509	13.531	21.727	53.949	12.143	19.455	15.951
660	11.759	13.825	22.236	55.447	12.488	19.924	16.322
720	11.969	14.074	22.693	56.784	12.817	20.165	16.640

Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:

ALL

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.233	0.338	0.732	0.744	0.237	0.212	0.356
10	0.276	0.392	0.889	1.098	0.354	0.237	0.434
20	0.352	0.486	1.167	1.719	0.559	0.281	0.573
30	0.415	0.565	1.395	2.226	0.727	0.319	0.687

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

40	0.465	0.627	1.575	2.618	0.856	0.350	0.776
50	0.501	0.673	1.705	2.896	0.948	0.375	0.841
60	0.524	0.703	1.785	3.059	1.001	0.393	0.881
120	0.545	0.736	1.850	3.075	1.007	0.394	0.910
180	0.550	0.743	1.850	3.062	1.003	0.386	0.914
240	0.546	0.738	1.838	3.042	0.997	0.375	0.908
300	0.540	0.729	1.820	3.016	0.989	0.361	0.898
360	0.532	0.719	1.796	2.983	0.979	0.345	0.886
420	0.522	0.705	1.767	2.944	0.967	0.326	0.871
480	0.510	0.689	1.732	2.898	0.953	0.305	0.853
540	0.496	0.670	1.691	2.846	0.936	0.281	0.832
600	0.481	0.648	1.644	2.788	0.918	0.254	0.808
660	0.463	0.624	1.592	2.722	0.898	0.224	0.781
720	0.444	0.597	1.533	2.651	0.876	0.192	0.752

ALL Pollutant Name: Carbon Di oxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	10.963	13.332	17.057	11.014	2.296	26.998	12.585
10	13.641	16.379	21.845	14.713	3.419	29.655	15.693
20	19.287	22.864	31.878	22.020	5.641	34.830	22.223
30	25.323	29.869	42.520	29.207	7.832	39.817	29.174
40	31.749	37.395	53.769	36.272	9.992	44.617	36.545
50	38.563	45.441	65.628	43.217	12.121	49.229	44.336
60	45.767	54.007	78.094	50.041	14.219	53.654	52.548
120	92.432	111.248	156.521	79.996	23.365	74.198	105.073
180	105.899	127.380	180.109	90.913	27.029	75.665	120.321
240	119.016	143.140	203.010	101.186	30.477	77.049	135.156
300	131.784	158.530	225.223	110.816	33.708	78.349	149.580
360	144.203	173.548	246.750	119.802	36.724	79.565	163.591
420	156.273	188.195	267.590	128.145	39.523	80.698	177.191
480	167.993	202.471	287.743	135.844	42.106	81.748	190.379
540	179.363	216.375	307.208	142.900	44.474	82.714	203.155
600	190.385	229.909	325.987	149.313	46.625	83.597	215.518
660	201.057	243.071	344.079	155.082	48.560	84.396	227.470
720	211.380	255.862	361.483	160.208	50.279	85.111	239.010

ALL Pollutant Name: Sul fur Di oxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.001	0.001	0.000	0.000	0.000
40	0.000	0.000	0.001	0.001	0.000	0.001	0.000
50	0.000	0.001	0.001	0.001	0.000	0.001	0.001
60	0.001	0.001	0.001	0.001	0.000	0.001	0.001
120	0.001	0.001	0.002	0.001	0.000	0.001	0.001
180	0.001	0.001	0.002	0.002	0.000	0.001	0.001
240	0.001	0.002	0.002	0.002	0.000	0.001	0.002
300	0.001	0.002	0.002	0.002	0.001	0.001	0.002
360	0.002	0.002	0.003	0.002	0.001	0.001	0.002
420	0.002	0.002	0.003	0.002	0.001	0.001	0.002

Vehicle	Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM2-5	CH4	Summer
480	0.002	0.002	0.003	0.002	0.001	0.001	0.002	
540	0.002	0.002	0.003	0.002	0.001	0.001	0.002	
600	0.002	0.002	0.004	0.002	0.001	0.001	0.002	
660	0.002	0.003	0.004	0.002	0.001	0.001	0.002	
720	0.002	0.003	0.004	0.003	0.001	0.001	0.003	

ALL Pollutant Name: PM2.5 Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.000	0.012	0.001
10	0.001	0.002	0.002	0.001	0.000	0.010	0.002
20	0.002	0.004	0.003	0.002	0.001	0.008	0.003
30	0.003	0.005	0.004	0.002	0.001	0.006	0.004
40	0.004	0.007	0.006	0.003	0.001	0.005	0.005
50	0.005	0.008	0.007	0.003	0.001	0.004	0.006
60	0.006	0.009	0.008	0.004	0.001	0.003	0.007
120	0.008	0.014	0.011	0.005	0.002	0.008	0.010
180	0.009	0.014	0.012	0.006	0.002	0.012	0.011
240	0.009	0.015	0.013	0.006	0.002	0.016	0.011
300	0.010	0.016	0.013	0.006	0.002	0.019	0.012
360	0.010	0.017	0.014	0.007	0.002	0.022	0.012
420	0.010	0.017	0.014	0.007	0.002	0.025	0.013
480	0.011	0.018	0.015	0.007	0.002	0.027	0.013
540	0.011	0.019	0.015	0.007	0.002	0.029	0.014
600	0.011	0.019	0.016	0.008	0.003	0.030	0.014
660	0.012	0.019	0.016	0.008	0.003	0.030	0.014
720	0.012	0.020	0.016	0.008	0.003	0.031	0.015

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 4: Hot Soak Emissions (grams/trip)

ALL Pollutant Name: Methane Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM2-5	CH4	Summer
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

ALL	Pollutant Name: Methane	Temperature: ALL					Relative Humidity:	
Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: ALL Temperature: ALL Relative Humidity:

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.509	0.342	0.098	0.041	0.004	0.008	1.000
%TRIP	0.503	0.306	0.122	0.059	0.001	0.010	1.000
%VEH	0.537	0.327	0.081	0.022	0.001	0.032	1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
 Season : Summer
 Area : San Francisco

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Methane Temperature: 85F Relative Humidity:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	20.800	37.780	0.000	0.000	3.522
1	7.975	10.466	8.074	24.402	23.516	35.479	9.769
2	7.975	10.466	8.074	24.402	23.516	35.479	9.769
3	7.825	10.263	7.976	24.402	23.516	35.479	9.614
4	7.540	9.877	7.788	24.402	23.516	35.479	9.319
5	7.274	9.517	7.612	24.402	23.516	35.479	9.043

50% Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	5.140	79.381	0.000	0.000	3.687
1	0.390	0.668	1.071	21.762	30.443	0.817	1.524
2	0.390	0.668	1.071	21.762	30.443	0.817	1.524
3	0.384	0.657	1.061	21.762	30.443	0.817	1.516
4	0.372	0.636	1.043	21.762	30.443	0.817	1.502
5	0.362	0.616	1.025	21.762	30.443	0.817	1.488

50% Pollutant Name: Carbon Dioxide Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	904.971	5102.181	0.000	0.000	292.276
1	1326.634	1611.761	2160.723	2696.687	2658.353	237.445	1555.160
2	1326.634	1611.761	2160.723	2696.687	2658.353	237.445	1555.160
3	1289.673	1566.750	2110.812	2696.687	2658.353	237.445	1516.136
4	1220.369	1482.350	2017.224	2696.687	2658.353	237.445	1442.962
5	1156.747	1404.870	1931.310	2696.687	2658.353	237.445	1375.788

50% Pollutant Name: Sulfur Dioxide Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.049	0.000	0.000	0.003
1	0.013	0.016	0.021	0.026	0.026	0.003	0.015
2	0.013	0.016	0.021	0.026	0.026	0.003	0.015
3	0.013	0.015	0.020	0.026	0.026	0.003	0.015
4	0.012	0.014	0.019	0.026	0.026	0.003	0.014
5	0.011	0.014	0.019	0.026	0.026	0.003	0.013

50% Pollutant Name: PM2.5 Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

0	0.000	0.000	0.055	1.037	0.000	0.000	0.047
1	0.059	0.104	0.108	1.366	0.778	0.042	0.134
2	0.059	0.104	0.108	1.366	0.778	0.042	0.134
3	0.056	0.099	0.104	1.366	0.778	0.042	0.131
4	0.051	0.091	0.096	1.366	0.778	0.042	0.124
5	0.047	0.083	0.088	1.366	0.778	0.042	0.119

50% Poll utant Name: PM2.5 - Ti re Wear Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.002	0.002	0.006	0.002	0.001	0.002
2	0.002	0.002	0.002	0.006	0.002	0.001	0.002
3	0.002	0.002	0.002	0.006	0.002	0.001	0.002
4	0.002	0.002	0.002	0.006	0.002	0.001	0.002
5	0.002	0.002	0.002	0.006	0.002	0.001	0.002

50% Poll utant Name: PM2.5 - Break Wear Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.005	0.005	0.005	0.009	0.005	0.003	0.005
2	0.005	0.005	0.005	0.009	0.005	0.003	0.005
3	0.005	0.005	0.005	0.009	0.005	0.003	0.005
4	0.005	0.005	0.005	0.009	0.005	0.003	0.005
5	0.005	0.005	0.005	0.009	0.005	0.003	0.005

50% Poll utant Name: Gasol i ne - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.602	5.376	3.861	3.336	3.305	28.660	6.073
2	6.602	5.376	3.861	3.336	3.305	28.660	6.073
3	6.791	5.531	3.957	3.336	3.305	28.660	6.238
4	7.175	5.846	4.153	3.336	3.305	28.660	6.575
5	7.569	6.168	4.354	3.336	3.305	28.660	6.919

50% Poll utant Name: Di esel - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	27.981	29.007	19.619	4.563	3.764	0.000	9.479
2	27.981	29.007	19.619	4.563	3.764	0.000	9.479

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

30	2.279	2.740	5.545	15.453	3.886	4.466	3.613
40	2.849	3.444	7.014	18.658	4.793	4.317	4.481
50	3.374	4.091	8.349	21.590	5.612	4.294	5.279
60	3.854	4.680	9.551	24.249	6.343	4.397	6.004
120	6.098	7.658	13.968	34.397	8.850	7.892	9.214
180	7.889	9.630	15.618	36.831	9.325	10.031	11.083
240	8.388	10.212	16.459	39.136	9.784	11.977	11.769
300	8.848	10.749	17.245	41.312	10.228	13.712	12.406
360	9.268	11.242	17.978	43.359	10.655	15.236	12.992
420	9.648	11.691	18.657	45.278	11.066	16.550	13.529
480	9.989	12.095	19.281	47.068	11.461	17.653	14.016
540	10.291	12.454	19.852	48.729	11.840	18.545	14.454
600	10.553	12.770	20.368	50.262	12.203	19.226	14.842
660	10.775	13.041	20.830	51.665	12.551	19.696	15.180
720	10.958	13.267	21.238	52.940	12.882	19.956	15.469

ALL Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.220	0.326	0.736	0.711	0.244	0.205	0.344
10	0.258	0.375	0.882	1.052	0.364	0.231	0.417
20	0.326	0.462	1.140	1.651	0.576	0.278	0.545
30	0.382	0.534	1.353	2.140	0.748	0.317	0.650
40	0.426	0.591	1.520	2.518	0.881	0.350	0.733
50	0.459	0.634	1.642	2.786	0.975	0.375	0.793
60	0.480	0.661	1.718	2.943	1.031	0.393	0.830
120	0.500	0.694	1.785	2.958	1.036	0.394	0.860
180	0.505	0.701	1.786	2.946	1.032	0.387	0.864
240	0.501	0.696	1.774	2.927	1.026	0.376	0.857
300	0.495	0.688	1.756	2.902	1.018	0.364	0.849
360	0.488	0.678	1.733	2.871	1.007	0.348	0.837
420	0.479	0.665	1.704	2.834	0.995	0.330	0.822
480	0.468	0.649	1.669	2.791	0.980	0.310	0.805
540	0.455	0.631	1.628	2.742	0.964	0.287	0.785
600	0.441	0.611	1.582	2.686	0.945	0.261	0.762
660	0.425	0.587	1.530	2.624	0.925	0.233	0.737
720	0.407	0.562	1.472	2.556	0.902	0.203	0.709

ALL Pollutant Name: Carbon Dioxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	11.023	13.416	17.380	9.702	2.336	25.396	12.589
10	13.551	16.359	21.962	13.278	3.506	28.003	15.557
20	18.926	22.656	31.622	20.347	5.823	33.083	21.833
30	24.725	29.502	41.947	27.304	8.107	37.985	28.563
40	30.947	36.896	52.937	34.149	10.358	42.709	35.746
50	37.592	44.838	64.590	40.882	12.578	47.255	43.383
60	44.661	53.328	76.909	47.503	14.765	51.623	51.474
120	91.732	111.067	156.370	76.513	24.300	71.831	104.432
180	105.020	127.115	179.753	87.384	28.137	73.634	119.541
240	117.997	142.820	202.511	97.614	31.748	75.333	134.274
300	130.665	158.184	224.642	107.203	35.132	76.929	148.632
360	143.023	173.205	246.148	116.151	38.290	78.421	162.613

Vehi cle Queui ng E mi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

420	155.071	187.885	267.027	124.459	41.221	79.809	176.219
480	166.809	202.222	287.280	132.125	43.927	81.095	189.450
540	178.238	216.217	306.907	139.151	46.405	82.276	202.305
600	189.357	229.870	325.908	145.536	48.658	83.354	214.783
660	200.166	243.180	344.283	151.280	50.684	84.329	226.887
720	210.665	256.149	362.031	156.383	52.485	85.200	238.614

ALL Pollutant Name: Sul fur Di ox i de Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.001	0.001	0.000	0.000	0.000
40	0.000	0.000	0.001	0.001	0.000	0.001	0.000
50	0.000	0.001	0.001	0.001	0.000	0.001	0.001
60	0.001	0.001	0.001	0.001	0.000	0.001	0.001
120	0.001	0.001	0.002	0.001	0.000	0.001	0.001
180	0.001	0.001	0.002	0.001	0.000	0.001	0.001
240	0.001	0.002	0.002	0.002	0.000	0.001	0.001
300	0.001	0.002	0.002	0.002	0.001	0.001	0.002
360	0.002	0.002	0.003	0.002	0.001	0.001	0.002
420	0.002	0.002	0.003	0.002	0.001	0.001	0.002
480	0.002	0.002	0.003	0.002	0.001	0.001	0.002
540	0.002	0.002	0.003	0.002	0.001	0.001	0.002
600	0.002	0.002	0.003	0.002	0.001	0.001	0.002
660	0.002	0.003	0.004	0.002	0.001	0.001	0.002
720	0.002	0.003	0.004	0.002	0.001	0.001	0.003

ALL Pollutant Name: PM2.5 Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.000	0.011	0.001
10	0.001	0.002	0.002	0.001	0.000	0.010	0.002
20	0.002	0.004	0.003	0.002	0.001	0.008	0.003
30	0.003	0.005	0.005	0.002	0.001	0.006	0.004
40	0.004	0.007	0.006	0.003	0.001	0.005	0.005
50	0.005	0.008	0.007	0.003	0.001	0.004	0.006
60	0.006	0.010	0.008	0.004	0.001	0.003	0.007
120	0.008	0.014	0.012	0.005	0.002	0.008	0.010
180	0.009	0.015	0.013	0.006	0.002	0.012	0.011
240	0.009	0.016	0.013	0.006	0.002	0.015	0.012
300	0.010	0.017	0.014	0.006	0.002	0.018	0.012
360	0.010	0.018	0.015	0.006	0.002	0.021	0.013
420	0.011	0.018	0.015	0.007	0.002	0.023	0.013
480	0.011	0.019	0.016	0.007	0.002	0.025	0.014
540	0.011	0.019	0.016	0.007	0.003	0.027	0.014
600	0.011	0.020	0.017	0.007	0.003	0.028	0.015
660	0.012	0.020	0.017	0.008	0.003	0.028	0.015
720	0.012	0.021	0.017	0.008	0.003	0.029	0.015

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Methane Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp

Vehi cle Queui ng degF	Emi ssi ons_SF LDA	Bay Area LDT	Basin_2008-10_2033-34_PM2-5_CH4_Summer MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin Average

Table 5b: Multi-Day Diurnal Loss Emissions
 (grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity: ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin Average

Table 6a: Partial Day Resting Loss Emissions
 (grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity: ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

85 0.000 0.000 0.000 0.000 0.000 0.000 0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

LDA	LDT	MDT	HDT	UBUS	MCY	ALL
-----	-----	-----	-----	------	-----	-----

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer
 %VMT 0. 512 0. 340 0. 096 0. 040 0. 004 0. 008 1. 000
 %TRIP 0. 503 0. 306 0. 122 0. 059 0. 001 0. 010 1. 000
 %VEH 0. 537 0. 326 0. 081 0. 022 0. 001 0. 032 1. 000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2009 -- All model years in the range 1965 to 2009 selected
 Season : Summer
 Area : San Francisco

Year: 2009 -- Model Years 1965 to 2009 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Methane Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM2-5_CH4_Summer

2	1324.925	1614.742	2162.022	2695.708	2654.583	242.441	1553.546
3	1288.038	1569.658	2112.175	2695.708	2654.583	242.441	1514.564
4	1218.871	1485.120	2018.706	2695.708	2654.583	242.441	1441.470
5	1155.375	1407.514	1932.901	2695.708	2654.583	242.441	1374.369

50% Pollutant Name: Sul fur Di oxi de Temperature: 85F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.049	0.000	0.000	0.003
1	0.013	0.016	0.021	0.026	0.026	0.003	0.015
2	0.013	0.016	0.021	0.026	0.026	0.003	0.015
3	0.012	0.015	0.020	0.026	0.026	0.003	0.015
4	0.012	0.014	0.020	0.026	0.026	0.003	0.014
5	0.011	0.014	0.019	0.026	0.026	0.003	0.013

50% Pollutant Name: PM2.5 Temperature: 85F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.054	0.967	0.000	0.000	0.044
1	0.059	0.108	0.113	1.228	0.769	0.039	0.130
2	0.059	0.108	0.113	1.228	0.769	0.039	0.130
3	0.056	0.103	0.109	1.228	0.769	0.039	0.126
4	0.051	0.094	0.100	1.228	0.769	0.039	0.120
5	0.047	0.086	0.092	1.228	0.769	0.039	0.114

50% Pollutant Name: PM2.5 - Tire Wear Temperature: 85F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.002	0.002	0.006	0.002	0.001	0.002
2	0.002	0.002	0.002	0.006	0.002	0.001	0.002
3	0.002	0.002	0.002	0.006	0.002	0.001	0.002
4	0.002	0.002	0.002	0.006	0.002	0.001	0.002
5	0.002	0.002	0.002	0.006	0.002	0.001	0.002

50% Pollutant Name: PM2.5 - Break Wear Temperature: 85F Rel ative Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.005	0.005	0.005	0.008	0.005	0.003	0.005
2	0.005	0.005	0.005	0.008	0.005	0.003	0.005
3	0.005	0.005	0.005	0.008	0.005	0.003	0.005
4	0.005	0.005	0.005	0.008	0.005	0.003	0.005

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer
 5 0.005 0.005 0.005 0.008 0.005 0.003 0.005

50% Pol l utant Name: Gasol i ne - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.619	5.376	3.863	3.352	3.314	28.522	6.089
2	6.619	5.376	3.863	3.352	3.314	28.522	6.089
3	6.808	5.530	3.960	3.352	3.314	28.522	6.255
4	7.194	5.845	4.155	3.352	3.314	28.522	6.592
5	7.588	6.167	4.356	3.352	3.314	28.522	6.937

50% Pol l utant Name: Di esel - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	28.024	29.005	19.617	4.566	3.769	0.000	9.248
2	28.024	29.005	19.617	4.566	3.769	0.000	9.248
3	28.024	29.005	19.617	4.566	3.769	0.000	9.248
4	28.024	29.005	19.617	4.566	3.769	0.000	9.248
5	28.024	29.005	19.617	4.566	3.769	0.000	9.248

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average San Francisco Basin Average Basin

Table 2: Starting Emi ssi ons (grams/trip)

ALL Pol l utant Name: Methane Temperature: 85F Rel ati ve Humi di ty:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.004	0.004	0.007	0.027	0.008	0.072	0.006
10	0.006	0.007	0.011	0.037	0.011	0.075	0.009

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

20	0.011	0.011	0.020	0.054	0.016	0.083	0.015
30	0.014	0.016	0.029	0.069	0.021	0.093	0.020
40	0.018	0.019	0.036	0.084	0.026	0.104	0.025
50	0.021	0.023	0.042	0.097	0.030	0.116	0.030
60	0.024	0.026	0.048	0.107	0.033	0.123	0.033
120	0.032	0.036	0.065	0.128	0.039	0.143	0.044
180	0.036	0.040	0.070	0.136	0.042	0.154	0.048
240	0.038	0.042	0.074	0.144	0.044	0.165	0.051
300	0.040	0.045	0.078	0.153	0.047	0.176	0.054
360	0.042	0.047	0.082	0.161	0.049	0.188	0.057
420	0.044	0.049	0.086	0.168	0.052	0.199	0.060
480	0.046	0.051	0.090	0.176	0.054	0.210	0.062
540	0.048	0.054	0.094	0.183	0.056	0.221	0.065
600	0.050	0.056	0.097	0.190	0.058	0.231	0.068
660	0.052	0.058	0.101	0.197	0.060	0.242	0.070
720	0.054	0.060	0.104	0.204	0.062	0.253	0.072

ALL Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.560	0.653	1.155	5.485	1.235	5.071	0.992
10	0.879	1.061	2.014	7.428	1.815	4.913	1.495
20	1.487	1.837	3.640	11.106	2.908	4.677	2.450
30	2.053	2.558	5.142	14.506	3.913	4.546	3.337
40	2.579	3.225	6.521	17.628	4.828	4.518	4.156
50	3.063	3.838	7.776	20.472	5.655	4.595	4.908
60	3.505	4.397	8.908	23.038	6.393	4.776	5.592
120	5.546	7.185	13.082	32.506	8.916	8.277	8.570
180	7.205	9.074	14.672	34.637	9.391	10.280	10.321
240	7.663	9.626	15.479	36.666	9.851	12.114	10.955
300	8.083	10.135	16.231	38.592	10.295	13.752	11.543
360	8.467	10.601	16.927	40.415	10.724	15.196	12.084
420	8.813	11.023	17.569	42.136	11.136	16.446	12.578
480	9.121	11.402	18.155	43.755	11.533	17.501	13.026
540	9.392	11.738	18.687	45.271	11.914	18.361	13.427
600	9.626	12.030	19.163	46.684	12.279	19.027	13.782
660	9.823	12.280	19.584	47.995	12.628	19.498	14.089
720	9.982	12.486	19.949	49.203	12.962	19.775	14.351

ALL Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.206	0.312	0.736	0.676	0.250	0.197	0.330
10	0.239	0.357	0.872	1.002	0.374	0.225	0.397
20	0.299	0.437	1.112	1.576	0.592	0.274	0.515
30	0.349	0.503	1.310	2.045	0.769	0.316	0.612
40	0.388	0.556	1.465	2.407	0.906	0.350	0.689
50	0.417	0.595	1.579	2.663	1.003	0.376	0.745
60	0.436	0.620	1.651	2.813	1.059	0.394	0.779
120	0.455	0.652	1.721	2.828	1.065	0.395	0.808
180	0.460	0.659	1.722	2.816	1.061	0.388	0.812
240	0.456	0.654	1.710	2.799	1.054	0.378	0.806
300	0.451	0.646	1.693	2.775	1.046	0.366	0.798

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

360	0.445	0.637	1.670	2.746	1.035	0.351	0.787
420	0.436	0.625	1.641	2.711	1.023	0.334	0.773
480	0.426	0.610	1.607	2.670	1.008	0.315	0.757
540	0.415	0.593	1.567	2.624	0.991	0.293	0.738
600	0.401	0.573	1.521	2.571	0.972	0.269	0.716
660	0.386	0.551	1.469	2.513	0.951	0.242	0.692
720	0.370	0.527	1.412	2.449	0.927	0.213	0.665

ALL Pollutant Name: Carbon Di oxide Temperature: 85F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	11.061	13.502	17.654	8.647	2.372	23.908	12.593
10	13.450	16.346	22.052	12.119	3.585	26.467	15.431
20	18.569	22.465	31.383	18.986	5.986	31.458	21.471
30	24.145	29.159	41.427	25.747	8.355	36.280	27.996
40	30.176	36.428	52.185	32.405	10.690	40.932	35.005
50	36.662	44.272	63.656	38.958	12.992	45.415	42.499
60	43.605	52.692	75.841	45.406	15.262	49.729	50.478
120	91.057	110.911	156.205	73.613	25.150	69.619	103.842
180	104.180	126.879	179.408	84.426	29.145	71.731	118.823
240	117.031	142.533	202.038	94.602	32.904	73.720	133.462
300	129.609	157.872	224.096	104.140	36.428	75.588	147.758
360	141.913	172.897	245.582	113.041	39.716	77.334	161.713
420	153.945	187.608	266.495	121.304	42.768	78.957	175.326
480	165.704	202.004	286.836	128.930	45.585	80.459	188.597
540	177.190	216.086	306.604	135.917	48.166	81.839	201.525
600	188.403	229.854	325.800	142.268	50.511	83.097	214.112
660	199.344	243.307	344.424	147.981	52.621	84.233	226.357
720	210.011	256.446	362.475	153.056	54.495	85.247	238.259

ALL Pollutant Name: Sul fur Di oxide Temperature: 85F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.001	0.000	0.000	0.000
40	0.000	0.000	0.001	0.001	0.000	0.001	0.000
50	0.000	0.000	0.001	0.001	0.000	0.001	0.000
60	0.000	0.001	0.001	0.001	0.000	0.001	0.001
120	0.001	0.001	0.002	0.001	0.000	0.001	0.001
180	0.001	0.001	0.002	0.001	0.000	0.001	0.001
240	0.001	0.002	0.002	0.002	0.000	0.001	0.001
300	0.001	0.002	0.002	0.002	0.001	0.001	0.002
360	0.002	0.002	0.003	0.002	0.001	0.001	0.002
420	0.002	0.002	0.003	0.002	0.001	0.001	0.002
480	0.002	0.002	0.003	0.002	0.001	0.001	0.002
540	0.002	0.002	0.003	0.002	0.001	0.001	0.002
600	0.002	0.002	0.003	0.002	0.001	0.001	0.002
660	0.002	0.003	0.004	0.002	0.001	0.001	0.002
720	0.002	0.003	0.004	0.002	0.001	0.001	0.003

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

ALL Poll utant Name: PM2. 5 Temperature: 85F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.000	0.010	0.001
10	0.001	0.002	0.002	0.001	0.000	0.009	0.002
20	0.002	0.004	0.003	0.002	0.001	0.007	0.003
30	0.003	0.006	0.005	0.002	0.001	0.006	0.004
40	0.004	0.007	0.006	0.003	0.001	0.004	0.005
50	0.005	0.009	0.007	0.003	0.001	0.003	0.006
60	0.006	0.010	0.008	0.004	0.001	0.003	0.007
120	0.008	0.015	0.012	0.005	0.002	0.007	0.011
180	0.009	0.016	0.013	0.006	0.002	0.011	0.011
240	0.009	0.017	0.014	0.006	0.002	0.014	0.012
300	0.010	0.018	0.015	0.006	0.002	0.017	0.013
360	0.010	0.018	0.015	0.006	0.002	0.020	0.013
420	0.011	0.019	0.016	0.007	0.002	0.022	0.014
480	0.011	0.020	0.017	0.007	0.003	0.024	0.014
540	0.011	0.020	0.017	0.007	0.003	0.025	0.015
600	0.012	0.021	0.017	0.007	0.003	0.026	0.015
660	0.012	0.021	0.018	0.007	0.003	0.027	0.015
720	0.012	0.021	0.018	0.008	0.003	0.027	0.015

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

Average San Francisco Basin Average Basin

Table 4: Hot Soak Emi ssi ons (grams/trip)

ALL Poll utant Name: Methane Temperature: 85F Rel ative Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane		Temperature: ALL					Relative Humidity:	
ALL								
Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane		Temperature: ALL					Relative Humidity:	
ALL								
Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.515	0.338	0.095	0.040	0.004	0.008	1.000
%TRIP	0.503	0.306	0.122	0.058	0.001	0.010	1.000
%VEH	0.537	0.326	0.081	0.022	0.001	0.032	1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2010 -- All model years in the range 1966 to 2010 selected
 Season : Summer
 Area : San Francisco

Year: 2010 -- Model Years 1966 to 2010 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Methane Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle	Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM2-5	CH4	Summer
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 1: Running Exhaust Emissions (grams/mile;

grams/minute-hour)

Pollutant Name: Methane Temperature: 85F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.136	0.283	0.000	0.000	0.023
1	0.037	0.056	0.062	0.059	0.085	0.291	0.049
2	0.037	0.056	0.062	0.059	0.085	0.291	0.049
3	0.036	0.054	0.061	0.059	0.085	0.291	0.047
4	0.033	0.051	0.058	0.059	0.085	0.291	0.045
5	0.031	0.048	0.055	0.059	0.085	0.291	0.042

Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:
 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	19.833	35.388	0.000	0.000	3.087
1	1.214	2.009	2.558	4.850	10.475	23.210	1.952
2	1.214	2.009	2.558	4.850	10.475	23.210	1.952
3	1.202	1.989	2.536	4.850	10.475	23.210	1.937

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

4	1. 179	1. 950	2. 492	4. 850	10. 475	23. 210	1. 908
5	1. 157	1. 912	2. 449	4. 850	10. 475	23. 210	1. 879

50% Pol l utant Name: Oxi des of Ni trogen Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0. 000	0. 000	4. 514	85. 116	0. 000	0. 000	3. 576
1	0. 058	0. 109	0. 210	3. 353	17. 720	0. 920	0. 282
2	0. 058	0. 109	0. 210	3. 353	17. 720	0. 920	0. 282
3	0. 057	0. 107	0. 208	3. 353	17. 720	0. 920	0. 280
4	0. 055	0. 104	0. 205	3. 353	17. 720	0. 920	0. 278
5	0. 054	0. 101	0. 201	3. 353	17. 720	0. 920	0. 276

50% Pol l utant Name: Carbon Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0. 000	0. 000	914. 191	5080. 084	0. 000	0. 000	270. 912
1	1315. 524	1648. 227	2182. 853	2625. 450	2469. 849	266. 367	1548. 716
2	1315. 524	1648. 227	2182. 853	2625. 450	2469. 849	266. 367	1548. 716
3	1279. 005	1602. 307	2132. 819	2625. 450	2469. 849	266. 367	1509. 634
4	1210. 528	1516. 202	2039. 001	2625. 450	2469. 849	266. 367	1436. 351
5	1147. 666	1437. 157	1952. 876	2625. 450	2469. 849	266. 367	1369. 077

50% Pol l utant Name: Sul fur Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0. 000	0. 000	0. 009	0. 049	0. 000	0. 000	0. 003
1	0. 013	0. 016	0. 021	0. 025	0. 024	0. 003	0. 015
2	0. 013	0. 016	0. 021	0. 025	0. 024	0. 003	0. 015
3	0. 012	0. 015	0. 021	0. 025	0. 024	0. 003	0. 015
4	0. 012	0. 015	0. 020	0. 025	0. 024	0. 003	0. 014
5	0. 011	0. 014	0. 019	0. 025	0. 024	0. 003	0. 013

50% Pol l utant Name: PM2. 5 Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0. 000	0. 000	0. 042	0. 365	0. 000	0. 000	0. 017
1	0. 061	0. 130	0. 148	0. 181	0. 509	0. 023	0. 098
2	0. 061	0. 130	0. 148	0. 181	0. 509	0. 023	0. 098
3	0. 059	0. 123	0. 141	0. 181	0. 509	0. 023	0. 094
4	0. 053	0. 112	0. 129	0. 181	0. 509	0. 023	0. 086
5	0. 048	0. 102	0. 118	0. 181	0. 509	0. 023	0. 079

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

50% Pol l utant Name: PM2.5 - Tire Wear Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.002	0.002	0.005	0.002	0.001	0.002
2	0.002	0.002	0.002	0.005	0.002	0.001	0.002
3	0.002	0.002	0.002	0.005	0.002	0.001	0.002
4	0.002	0.002	0.002	0.005	0.002	0.001	0.002
5	0.002	0.002	0.002	0.005	0.002	0.001	0.002

50% Pol l utant Name: PM2.5 - Break Wear Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.005	0.005	0.005	0.008	0.005	0.003	0.005
2	0.005	0.005	0.005	0.008	0.005	0.003	0.005
3	0.005	0.005	0.005	0.008	0.005	0.003	0.005
4	0.005	0.005	0.005	0.008	0.005	0.003	0.005
5	0.005	0.005	0.005	0.008	0.005	0.003	0.005

50% Pol l utant Name: Gasol i ne - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.724	5.361	3.876	3.513	3.484	27.865	6.161
2	6.724	5.361	3.876	3.513	3.484	27.865	6.161
3	6.916	5.515	3.972	3.513	3.484	27.865	6.328
4	7.307	5.827	4.167	3.513	3.484	27.865	6.668
5	7.707	6.148	4.367	3.513	3.484	27.866	7.017

50% Pol l utant Name: Di esel - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.461	4.711	4.103	0.000	6.750
2	29.156	29.156	19.461	4.711	4.103	0.000	6.750
3	29.156	29.156	19.461	4.711	4.103	0.000	6.750
4	29.156	29.156	19.461	4.711	4.103	0.000	6.750
5	29.156	29.156	19.461	4.711	4.103	0.000	6.750

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 2: Starting Emi ssi ons (grams/trip)

ALL Poll utant Name: Methane Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.001	0.002	0.005	0.039	0.001
10	0.000	0.001	0.003	0.005	0.009	0.047	0.001
20	0.001	0.001	0.005	0.009	0.017	0.062	0.003
30	0.001	0.002	0.008	0.013	0.024	0.076	0.004
40	0.001	0.003	0.010	0.016	0.030	0.090	0.004
50	0.002	0.003	0.012	0.019	0.035	0.103	0.005
60	0.002	0.004	0.014	0.021	0.039	0.112	0.006
120	0.003	0.006	0.024	0.026	0.048	0.134	0.009
180	0.004	0.007	0.026	0.027	0.050	0.142	0.010
240	0.004	0.007	0.028	0.029	0.053	0.151	0.011
300	0.004	0.008	0.029	0.030	0.056	0.160	0.011
360	0.004	0.008	0.031	0.032	0.059	0.169	0.012
420	0.004	0.009	0.033	0.033	0.061	0.178	0.013
480	0.005	0.009	0.034	0.034	0.064	0.186	0.013
540	0.005	0.009	0.036	0.036	0.066	0.195	0.014
600	0.005	0.010	0.038	0.037	0.068	0.203	0.014
660	0.005	0.010	0.039	0.038	0.070	0.211	0.015
720	0.005	0.011	0.041	0.039	0.072	0.218	0.015

ALL Poll utant Name: Carbon Monoxi de Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.047	0.083	0.304	0.624	0.717	2.953	0.151
10	0.092	0.165	0.601	1.223	1.405	3.428	0.275
20	0.180	0.322	1.177	2.345	2.694	4.345	0.512
30	0.263	0.471	1.726	3.365	3.866	5.217	0.734
40	0.342	0.612	2.248	4.284	4.921	6.046	0.943
50	0.416	0.745	2.745	5.101	5.860	6.831	1.137
60	0.487	0.870	3.215	5.817	6.683	7.571	1.317
120	0.788	1.412	5.245	7.909	9.087	11.192	2.041
180	1.111	1.975	6.141	8.140	9.352	12.285	2.510
240	1.207	2.144	6.697	8.379	9.627	13.365	2.703

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

300	1. 292	2. 293	7. 185	8. 626	9. 910	14. 360	2. 875
360	1. 365	2. 422	7. 605	8. 880	10. 202	15. 272	3. 027
420	1. 427	2. 531	7. 957	9. 141	10. 503	16. 098	3. 158
480	1. 478	2. 621	8. 242	9. 411	10. 812	16. 840	3. 269
540	1. 517	2. 690	8. 459	9. 688	11. 130	17. 498	3. 359
600	1. 545	2. 740	8. 608	9. 972	11. 457	18. 072	3. 429
660	1. 561	2. 770	8. 689	10. 264	11. 793	18. 561	3. 477
720	1. 566	2. 780	8. 703	10. 564	12. 137	18. 965	3. 506

ALL Poll utant Name: Oxi des of Ni trogen Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0. 029	0. 065	0. 531	0. 178	0. 392	0. 148	0. 112
10	0. 031	0. 069	0. 553	0. 269	0. 590	0. 186	0. 123
20	0. 034	0. 076	0. 592	0. 427	0. 939	0. 254	0. 141
30	0. 037	0. 081	0. 626	0. 557	1. 222	0. 310	0. 156
40	0. 039	0. 086	0. 656	0. 656	1. 442	0. 354	0. 169
50	0. 041	0. 090	0. 681	0. 727	1. 597	0. 386	0. 178
60	0. 042	0. 093	0. 701	0. 768	1. 687	0. 406	0. 185
120	0. 045	0. 101	0. 768	0. 772	1. 696	0. 407	0. 198
180	0. 046	0. 102	0. 768	0. 770	1. 690	0. 404	0. 198
240	0. 046	0. 101	0. 762	0. 765	1. 681	0. 397	0. 197
300	0. 045	0. 100	0. 752	0. 759	1. 668	0. 390	0. 194
360	0. 044	0. 098	0. 739	0. 752	1. 652	0. 380	0. 191
420	0. 043	0. 096	0. 721	0. 743	1. 632	0. 369	0. 187
480	0. 042	0. 093	0. 699	0. 733	1. 610	0. 357	0. 182
540	0. 041	0. 090	0. 673	0. 721	1. 584	0. 342	0. 177
600	0. 039	0. 086	0. 643	0. 708	1. 554	0. 326	0. 170
660	0. 037	0. 082	0. 610	0. 693	1. 522	0. 309	0. 163
720	0. 035	0. 077	0. 572	0. 677	1. 486	0. 290	0. 154

ALL Poll utant Name: Carbon Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12. 277	15. 416	21. 663	2. 807	2. 191	13. 101	13. 845
10	13. 748	17. 292	24. 370	5. 598	4. 370	15. 292	15. 674
20	17. 195	21. 678	30. 668	11. 135	8. 692	19. 594	19. 885
30	21. 316	26. 907	38. 144	16. 609	12. 965	23. 790	24. 832
40	26. 111	32. 979	46. 799	22. 021	17. 190	27. 880	30. 517
50	31. 579	39. 894	56. 633	27. 370	21. 366	31. 864	36. 939
60	37. 721	47. 653	67. 646	32. 658	25. 494	35. 741	44. 098
120	88. 187	111. 158	157. 210	55. 546	43. 360	53. 147	101. 410
180	100. 064	126. 160	178. 500	65. 623	51. 227	57. 416	115. 213
240	111. 930	141. 142	199. 744	75. 106	58. 629	61. 434	128. 962
300	123. 786	156. 102	220. 943	83. 994	65. 567	65. 202	142. 656
360	135. 631	171. 042	242. 096	92. 287	72. 041	68. 719	156. 297
420	147. 465	185. 962	263. 203	99. 985	78. 050	71. 986	169. 884
480	159. 288	200. 861	284. 265	107. 088	83. 595	75. 002	183. 416
540	171. 100	215. 739	305. 280	113. 597	88. 676	77. 767	196. 895
600	182. 902	230. 596	326. 250	119. 511	93. 292	80. 282	210. 320
660	194. 692	245. 433	347. 174	124. 830	97. 444	82. 546	223. 690
720	206. 472	260. 249	368. 052	129. 554	101. 132	84. 560	237. 007

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

ALL Pol l utant Name: Sul fur Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.001	0.000	0.000	0.000	0.000
60	0.000	0.000	0.001	0.000	0.000	0.001	0.000
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.001	0.001	0.001
240	0.001	0.001	0.002	0.001	0.001	0.001	0.001
300	0.001	0.002	0.002	0.001	0.001	0.001	0.001
360	0.001	0.002	0.002	0.001	0.001	0.001	0.002
420	0.001	0.002	0.003	0.001	0.001	0.001	0.002
480	0.002	0.002	0.003	0.001	0.001	0.001	0.002
540	0.002	0.002	0.003	0.001	0.001	0.001	0.002
600	0.002	0.002	0.003	0.001	0.001	0.001	0.002
660	0.002	0.002	0.003	0.001	0.001	0.001	0.002
720	0.002	0.003	0.004	0.001	0.001	0.001	0.002

ALL Pol l utant Name: PM2. 5 Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.001	0.001	0.000	0.000	0.005	0.001
10	0.001	0.002	0.002	0.001	0.001	0.005	0.001
20	0.002	0.004	0.003	0.001	0.001	0.004	0.002
30	0.002	0.005	0.005	0.002	0.002	0.003	0.004
40	0.003	0.007	0.007	0.002	0.002	0.003	0.005
50	0.004	0.008	0.008	0.003	0.003	0.002	0.006
60	0.005	0.010	0.009	0.003	0.003	0.002	0.007
120	0.008	0.016	0.015	0.004	0.004	0.005	0.011
180	0.009	0.018	0.017	0.005	0.004	0.006	0.012
240	0.009	0.019	0.019	0.005	0.004	0.008	0.013
300	0.010	0.021	0.020	0.005	0.005	0.010	0.014
360	0.011	0.022	0.021	0.005	0.005	0.011	0.015
420	0.011	0.023	0.022	0.005	0.005	0.012	0.016
480	0.012	0.024	0.023	0.005	0.005	0.013	0.016
540	0.012	0.025	0.024	0.005	0.005	0.014	0.017
600	0.012	0.025	0.024	0.006	0.005	0.014	0.017
660	0.012	0.025	0.025	0.006	0.005	0.014	0.017
720	0.012	0.025	0.025	0.006	0.006	0.015	0.017

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM2-5_CH4_Summer
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Methane Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

 Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehi cl e Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

ALL	Pollutant Name: Methane	Temperature: ALL					Relative Humidity:	
Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

ALL	Pollutant Name:		Temperature: ALL					Relative Humidity:
	LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
%VMT	0.526	0.336	0.089	0.037	0.004	0.008	1.000	
%TRIP	0.509	0.299	0.124	0.057	0.001	0.010	1.000	
%VEH	0.540	0.324	0.082	0.021	0.001	0.032	1.000	

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2033 -- All model years in the range 1989 to 2033 selected
 Season : Summer
 Area : San Francisco

Year: 2033 -- Model Years 1989 to 2033 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emi ssi ons

(grams/minute)

Poll utant Name: Methane Temperature: 85F Rel ative Humi di ty:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emi ssi on Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Table 1: Runni ng Exhaust Emi ssi ons (grams/mi le;
grams/i dle-hour)

Poll utant Name: Methane Temperature: 85F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.136	0.283	0.000	0.000	0.023
1	0.037	0.055	0.062	0.058	0.082	0.291	0.048
2	0.037	0.055	0.062	0.058	0.082	0.291	0.048
3	0.035	0.053	0.060	0.058	0.082	0.291	0.047
4	0.033	0.050	0.058	0.058	0.082	0.291	0.044
5	0.030	0.047	0.055	0.058	0.082	0.291	0.042

Poll utant Name: Carbon Monoxi de Temperature: 85F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	19.871	35.430	0.000	0.000	3.090
1	1.178	1.931	2.506	4.792	9.642	23.204	1.897
2	1.178	1.931	2.506	4.792	9.642	23.204	1.897
3	1.167	1.912	2.484	4.792	9.642	23.204	1.883
4	1.145	1.875	2.441	4.792	9.642	23.204	1.854
5	1.123	1.838	2.399	4.792	9.642	23.204	1.827

Poll utant Name: Oxi des of Ni trogen Temperature: 85F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	4.505	85.017	0.000	0.000	3.565
1	0.056	0.102	0.200	3.288	16.641	0.921	0.271
2	0.056	0.102	0.200	3.288	16.641	0.921	0.271
3	0.055	0.101	0.198	3.288	16.641	0.921	0.270
4	0.053	0.098	0.195	3.288	16.641	0.921	0.268
5	0.052	0.095	0.192	3.288	16.641	0.921	0.266

Poll utant Name: Carbon Di oxi de Temperature: 85F Rel ati ve Humi di ty:
50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	914.105	5075.152	0.000	0.000	270.363
1	1315.459	1648.649	2183.258	2621.551	2451.380	266.383	1548.589
2	1315.459	1648.649	2183.258	2621.551	2451.380	266.383	1548.589
3	1278.943	1602.719	2133.219	2621.551	2451.380	266.383	1509.500
4	1210.471	1516.595	2039.392	2621.551	2451.380	266.383	1436.204
5	1147.614	1437.532	1953.257	2621.551	2451.380	266.383	1368.919

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

50% Pol l utant Name: Sul fur Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.009	0.049	0.000	0.000	0.003
1	0.013	0.016	0.021	0.025	0.023	0.003	0.015
2	0.013	0.016	0.021	0.025	0.023	0.003	0.015
3	0.012	0.015	0.021	0.025	0.023	0.003	0.015
4	0.012	0.015	0.020	0.025	0.023	0.003	0.014
5	0.011	0.014	0.019	0.025	0.023	0.003	0.013

50% Pol l utant Name: PM2.5 Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.042	0.363	0.000	0.000	0.017
1	0.061	0.129	0.148	0.180	0.485	0.023	0.098
2	0.061	0.129	0.148	0.180	0.485	0.023	0.098
3	0.059	0.123	0.141	0.180	0.485	0.023	0.093
4	0.053	0.112	0.129	0.180	0.485	0.023	0.086
5	0.048	0.102	0.118	0.180	0.485	0.023	0.079

50% Pol l utant Name: PM2.5 - Ti re Wear Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.002	0.002	0.005	0.002	0.001	0.002
2	0.002	0.002	0.002	0.005	0.002	0.001	0.002
3	0.002	0.002	0.002	0.005	0.002	0.001	0.002
4	0.002	0.002	0.002	0.005	0.002	0.001	0.002
5	0.002	0.002	0.002	0.005	0.002	0.001	0.002

50% Pol l utant Name: PM2.5 - Break Wear Temperature: 85F Rel ati ve Humi di ty:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.005	0.005	0.005	0.008	0.005	0.003	0.005
2	0.005	0.005	0.005	0.008	0.005	0.003	0.005
3	0.005	0.005	0.005	0.008	0.005	0.003	0.005
4	0.005	0.005	0.005	0.008	0.005	0.003	0.005
5	0.005	0.005	0.005	0.008	0.005	0.003	0.005

50% Pol l utant Name: Gasol i ne - mi /gal Temperature: 85F Rel ati ve Humi di ty:

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	6.725	5.361	3.876	3.514	3.488	27.865	6.160
2	6.725	5.361	3.876	3.514	3.488	27.865	6.160
3	6.917	5.514	3.972	3.514	3.488	27.865	6.328
4	7.308	5.827	4.167	3.514	3.488	27.865	6.668
5	7.708	6.147	4.367	3.514	3.488	27.865	7.016

50% Pollutant Name: Diesel - mi/gal Temperature: 85F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	29.156	29.156	19.457	4.719	4.145	0.000	6.738
2	29.156	29.156	19.457	4.719	4.145	0.000	6.738
3	29.156	29.156	19.457	4.719	4.145	0.000	6.738
4	29.156	29.156	19.457	4.719	4.145	0.000	6.738
5	29.156	29.156	19.457	4.719	4.145	0.000	6.738

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average San Francisco Basin Average Basin

Table 2: Starting Emissions (grams/trip)

ALL Pollutant Name: Methane Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.001	0.002	0.005	0.039	0.001
10	0.000	0.001	0.003	0.005	0.009	0.047	0.001
20	0.001	0.001	0.005	0.009	0.017	0.062	0.002
30	0.001	0.002	0.007	0.012	0.024	0.076	0.003
40	0.001	0.002	0.010	0.016	0.030	0.090	0.004
50	0.001	0.003	0.012	0.018	0.036	0.103	0.005
60	0.002	0.003	0.014	0.021	0.040	0.112	0.006
120	0.003	0.006	0.024	0.025	0.048	0.134	0.009
180	0.003	0.006	0.026	0.026	0.051	0.142	0.010

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

240	0.003	0.007	0.027	0.028	0.054	0.151	0.010
300	0.004	0.007	0.029	0.029	0.057	0.160	0.011
360	0.004	0.008	0.031	0.031	0.059	0.169	0.012
420	0.004	0.008	0.032	0.032	0.062	0.178	0.012
480	0.004	0.008	0.034	0.033	0.064	0.186	0.013
540	0.005	0.009	0.035	0.034	0.067	0.195	0.013
600	0.005	0.009	0.037	0.036	0.069	0.203	0.014
660	0.005	0.010	0.039	0.037	0.071	0.211	0.014
720	0.005	0.010	0.040	0.038	0.073	0.218	0.015

ALL Pollutant Name: Carbon Monoxide Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.044	0.079	0.300	0.603	0.702	2.949	0.147
10	0.087	0.155	0.593	1.181	1.375	3.425	0.266
20	0.169	0.303	1.160	2.264	2.636	4.344	0.494
30	0.248	0.444	1.702	3.250	3.783	5.219	0.709
40	0.323	0.578	2.218	4.137	4.816	6.050	0.911
50	0.394	0.704	2.709	4.926	5.735	6.836	1.099
60	0.460	0.823	3.175	5.618	6.540	7.578	1.274
120	0.748	1.339	5.192	7.638	8.893	11.200	1.977
180	1.058	1.882	6.079	7.862	9.153	12.291	2.432
240	1.152	2.046	6.634	8.092	9.421	13.369	2.621
300	1.234	2.190	7.120	8.330	9.698	14.363	2.790
360	1.305	2.315	7.539	8.576	9.984	15.273	2.939
420	1.365	2.420	7.890	8.828	10.278	16.099	3.067
480	1.413	2.506	8.173	9.089	10.581	16.840	3.175
540	1.451	2.573	8.388	9.356	10.892	17.498	3.262
600	1.477	2.619	8.534	9.631	11.212	18.071	3.329
660	1.492	2.647	8.613	9.913	11.541	18.560	3.376
720	1.495	2.654	8.623	10.203	11.878	18.965	3.402

ALL Pollutant Name: Oxides of Nitrogen Temperature: 85F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.028	0.062	0.530	0.172	0.394	0.148	0.110
10	0.029	0.065	0.549	0.258	0.593	0.186	0.119
20	0.032	0.071	0.586	0.411	0.944	0.254	0.137
30	0.034	0.076	0.618	0.535	1.229	0.310	0.151
40	0.036	0.080	0.646	0.631	1.450	0.354	0.163
50	0.037	0.083	0.669	0.699	1.606	0.386	0.172
60	0.039	0.086	0.689	0.739	1.696	0.406	0.178
120	0.042	0.093	0.756	0.743	1.706	0.408	0.191
180	0.043	0.095	0.757	0.740	1.699	0.404	0.191
240	0.042	0.094	0.751	0.736	1.690	0.398	0.190
300	0.042	0.093	0.741	0.730	1.677	0.390	0.187
360	0.041	0.091	0.727	0.723	1.661	0.380	0.184
420	0.040	0.089	0.709	0.715	1.641	0.369	0.180
480	0.039	0.086	0.688	0.705	1.618	0.357	0.176
540	0.038	0.083	0.662	0.694	1.592	0.343	0.170
600	0.036	0.080	0.632	0.681	1.563	0.327	0.164
660	0.034	0.076	0.599	0.667	1.530	0.309	0.156
720	0.032	0.071	0.562	0.651	1.494	0.290	0.148

Vehi cle Queui ng Emi ssi ons_SF Bay Area Basi n_2008-10_2033-34_PM2-5_CH4_Summer

ALL Poll utant Name: Carbon Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.293	15.448	21.726	2.805	2.281	13.075	13.871
10	13.757	17.314	24.413	5.594	4.549	15.265	15.690
20	17.192	21.680	30.676	11.126	9.047	19.565	19.884
30	21.303	26.892	38.124	16.596	13.495	23.760	24.818
40	26.088	32.951	46.756	22.004	17.892	27.848	30.491
50	31.549	39.856	56.573	27.349	22.239	31.830	36.904
60	37.685	47.607	67.574	32.633	26.535	35.706	44.056
120	88.176	111.176	157.270	55.503	45.132	53.106	101.418
180	100.043	126.165	178.540	65.572	53.320	57.380	115.209
240	111.901	141.136	199.770	75.048	61.024	61.403	128.949
300	123.750	156.091	220.962	83.929	68.246	65.175	142.637
360	135.590	171.028	242.114	92.215	74.984	68.696	156.275
420	147.422	185.949	263.226	99.907	81.239	71.966	169.861
480	159.244	200.852	284.299	107.005	87.010	74.986	183.397
540	171.059	215.738	305.333	113.509	92.299	77.754	196.881
600	182.864	230.607	326.328	119.418	97.104	80.272	210.315
660	194.661	245.459	347.283	124.733	101.426	82.539	223.697
720	206.449	260.294	368.199	129.454	105.264	84.555	237.028

ALL Poll utant Name: Sul fur Di oxi de Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.001	0.000	0.000	0.000	0.000
60	0.000	0.000	0.001	0.000	0.000	0.001	0.000
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.001	0.001	0.001
240	0.001	0.001	0.002	0.001	0.001	0.001	0.001
300	0.001	0.002	0.002	0.001	0.001	0.001	0.001
360	0.001	0.002	0.002	0.001	0.001	0.001	0.002
420	0.001	0.002	0.003	0.001	0.001	0.001	0.002
480	0.002	0.002	0.003	0.001	0.001	0.001	0.002
540	0.002	0.002	0.003	0.001	0.001	0.001	0.002
600	0.002	0.002	0.003	0.001	0.001	0.001	0.002
660	0.002	0.002	0.003	0.001	0.001	0.001	0.002
720	0.002	0.003	0.004	0.001	0.001	0.001	0.002

ALL Poll utant Name: PM2.5 Temperature: 85F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
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Vehicle	Queuing	Emissions_SF	Bay Area	Basin_2008-10	2033-34	PM2-5	CH4_Summer
5	0.000	0.001	0.001	0.000	0.000	0.005	0.001
10	0.001	0.002	0.002	0.001	0.001	0.005	0.001
20	0.002	0.003	0.003	0.001	0.001	0.004	0.002
30	0.002	0.005	0.005	0.002	0.002	0.003	0.004
40	0.003	0.007	0.007	0.002	0.002	0.003	0.005
50	0.004	0.008	0.008	0.003	0.003	0.002	0.006
60	0.005	0.010	0.009	0.003	0.003	0.002	0.007
120	0.008	0.016	0.015	0.004	0.004	0.005	0.011
180	0.009	0.018	0.017	0.005	0.005	0.006	0.012
240	0.009	0.019	0.019	0.005	0.005	0.008	0.013
300	0.010	0.021	0.020	0.005	0.005	0.010	0.014
360	0.011	0.022	0.021	0.005	0.005	0.011	0.015
420	0.011	0.023	0.022	0.005	0.005	0.012	0.016
480	0.012	0.024	0.023	0.005	0.005	0.013	0.016
540	0.012	0.025	0.024	0.005	0.005	0.014	0.017
600	0.012	0.025	0.024	0.006	0.006	0.014	0.017
660	0.012	0.025	0.025	0.006	0.006	0.014	0.017
720	0.012	0.025	0.025	0.006	0.006	0.015	0.017

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2008/04/09 20:19:44
Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
Season : Summer
Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
Average

Table 4: Hot Soak Emissions (grams/trip)

Time min	Pollutant Name: Methane							ALL
	LDA	LDT	MDT	HDT	UBUS	MCY		
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM2-5_CH4_Summer
 Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

 Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

 Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM2-5_CH4_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Methane Temperature: ALL Relative Humidity:
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006

Vehicle Queuing Emissions_SF Bay Area Basin_2008-10_2033-34_PM2-5_CH4_Summer
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity:
 ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.526	0.336	0.089	0.037	0.004	0.008	1.000
%TRIP	0.509	0.299	0.124	0.057	0.001	0.010	1.000
%VEH	0.540	0.324	0.082	0.021	0.001	0.032	1.000

Title : San Francisco Air Basin Avg Annual CYrs 2008-10 and 2032-33_Summer
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 2008/04/09 20:19:44
 Scen Year: 2034 -- All model years in the range 1990 to 2034 selected
 Season : Summer
 Area : San Francisco

Year: 2034 -- Model Years 1990 to 2034 Inclusive -- Summer
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

San Francisco Basin Average Basin
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Pollutant Name: Methane Temperature: 85F Relative Humidity:
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000

	Vehicle	Queuing	Emissions_SF	Bay Area	Basin_2008-10_2033-34	PM2-5	CH4	Summer
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000