

Appendix 9.12

Final MOBILE Emission Factors

Final MOBILE emission Factors

This Appendix contains a sample of final emission factors. These factors have been adjusted to reflect the I/M program and ATP settings discussed in Appendix 9.9.

The factors are difficult to display in printed format due to the size of the output file. Each output file consists of the following columns:

Column	Header	Explanation
1	RATE	Indicates this is an emission factor, in grams/mile
2	POL	Indicates pollutant (VOC, CO, or NOx)
3	SPEED	Indicates the speed, in mph, that the factor applies to
4	ETYPE	Emission type, indicates engine operation
5	HOUR	MOBILE6 hour of the day
6	RDW	MOBILE6 roadway classification
7-34	MOBILE6 vehicle categories	

As each file is 9,900 rows long, displaying the entire file is difficult in a printed format. These files are available by year and county on the CD-ROM of the conformity analysis.

The following page is an example of a small part of the August 30, 2007 emission factors generated for Galveston County.

SAMPLE PAGE of a final emission factor file: 30aug2007galv.rat

RATE	POL	SPEED	ETYPE	HOUR	RDW	LDGV	LDGT1	LDGT2	LDGT3	LDGT4
RATE	VOC	2.5	COMPOSITE	HOUR00	FRWY	5.858725	5.332472	5.470262	3.058795	3.227669
RATE	VOC	5	COMPOSITE	HOUR00	FRWY	2.786348	2.662352	2.761071	1.591147	1.712147
RATE	VOC	10	COMPOSITE	HOUR00	FRWY	1.973642	1.920176	1.989907	1.10634	1.191663
RATE	VOC	15	COMPOSITE	HOUR00	FRWY	1.778956	1.731995	1.790518	0.965046	1.036544
RATE	VOC	20	COMPOSITE	HOUR00	FRWY	1.698237	1.65315	1.709764	0.913982	0.983138
RATE	VOC	25	COMPOSITE	HOUR00	FRWY	1.656154	1.615044	1.670511	0.891109	0.95886
RATE	VOC	30	COMPOSITE	HOUR00	FRWY	1.627038	1.588651	1.643354	0.874971	0.941783
RATE	VOC	35	COMPOSITE	HOUR00	FRWY	1.602801	1.565565	1.619065	0.859878	0.925122
RATE	VOC	40	COMPOSITE	HOUR00	FRWY	1.587269	1.551283	1.60428	0.851667	0.916172
RATE	VOC	45	COMPOSITE	HOUR00	FRWY	1.57427	1.539105	1.591598	0.844461	0.908226
RATE	VOC	50	COMPOSITE	HOUR00	FRWY	1.562046	1.527684	1.579675	0.838182	0.901206
RATE	VOC	55	COMPOSITE	HOUR00	FRWY	1.551382	1.517723	1.56921	0.833403	0.895688
RATE	VOC	60	COMPOSITE	HOUR00	FRWY	1.543338	1.509949	1.560933	0.829698	0.891219
RATE	VOC	65	COMPOSITE	HOUR00	FRWY	1.537126	1.50366	1.55417	0.826676	0.887452
RATE	VOC	2.5	EXH_RUNNING	HOUR00	FRWY	0.628428	0.720064	0.819327	0.719173	0.841052
RATE	VOC	5	EXH_RUNNING	HOUR00	FRWY	0.384513	0.430111	0.490303	0.434313	0.508319
RATE	VOC	10	EXH_RUNNING	HOUR00	FRWY	0.202082	0.22502	0.256223	0.224558	0.262888
RATE	VOC	15	EXH_RUNNING	HOUR00	FRWY	0.132133	0.148124	0.168119	0.14499	0.169495
RATE	VOC	20	EXH_RUNNING	HOUR00	FRWY	0.121867	0.134889	0.152975	0.133268	0.15543
RATE	VOC	25	EXH_RUNNING	HOUR00	FRWY	0.116262	0.127414	0.144355	0.126571	0.147328
RATE	VOC	30	EXH_RUNNING	HOUR00	FRWY	0.112986	0.12282	0.138995	0.122387	0.142206
RATE	VOC	35	EXH_RUNNING	HOUR00	FRWY	0.108513	0.116484	0.131456	0.116837	0.135088
RATE	VOC	40	EXH_RUNNING	HOUR00	FRWY	0.108947	0.115797	0.130266	0.116662	0.134173
RATE	VOC	45	EXH_RUNNING	HOUR00	FRWY	0.109381	0.11511	0.129076	0.116487	0.133258
RATE	VOC	50	EXH_RUNNING	HOUR00	FRWY	0.109814	0.114423	0.127886	0.116311	0.132342
RATE	VOC	55	EXH_RUNNING	HOUR00	FRWY	0.110248	0.113736	0.126696	0.116136	0.131427
RATE	VOC	60	EXH_RUNNING	HOUR00	FRWY	0.110681	0.113049	0.125505	0.115961	0.130487
RATE	VOC	65	EXH_RUNNING	HOUR00	FRWY	0.111093	0.112301	0.124284	0.115707	0.12949
RATE	VOC	2.5	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	5	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	10	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	15	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	20	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	25	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	30	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	35	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	40	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	45	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	50	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	55	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	60	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	65	START	HOUR00	FRWY	0.338799	0.39726	0.435788	0.299995	0.346988
RATE	VOC	2.5	HOT_SOAK	HOUR00	FRWY	0.367086	0.31888	0.31888	0.127565	0.127565
RATE	VOC	5	HOT_SOAK	HOUR00	FRWY	0.367086	0.31888	0.31888	0.127565	0.127565
RATE	VOC	10	HOT_SOAK	HOUR00	FRWY	0.367086	0.31888	0.31888	0.127565	0.127565
RATE	VOC	15	HOT_SOAK	HOUR00	FRWY	0.367086	0.31888	0.31888	0.127565	0.127565
RATE	VOC	20	HOT_SOAK	HOUR00	FRWY	0.367086	0.31888	0.31888	0.127565	0.127565
RATE	VOC	25	HOT_SOAK	HOUR00	FRWY	0.367086	0.31888	0.31888	0.127565	0.127565