

Appendix 11

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 8.

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 NO _x)
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 2011 emission factors generated for Harris County.

RATE VOC	60	EXH_RUNNING HOUR00 FRWY	.07080087	.09378001	.11012899
.09131588	.10759058				
RATE VOC	65	EXH_RUNNING HOUR00 FRWY	.07086974	.09374444	.11009056
.09152410	.10757293				
RATE VOC	2.5	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	5	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	10	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	15	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	20	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	25	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	30	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	35	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	40	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	45	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	50	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	55	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	60	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	65	START HOUR00 FRWY	.20467683	.28716269	.32970604
.24251204					.20321139
RATE VOC	2.5	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	5	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	10	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	15	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	20	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	25	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	30	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	35	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	40	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	45	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	50	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681
RATE VOC	55	Hot_Soak HOUR00 FRWY	.25685995	.31570240	.31570240
.09079681					.09079681

RATE VOC .09079681	60	Hot_Soak	HOUR00 FRWY	.25685995	.31570240	.31570240	.09079681
RATE VOC .09079681	65	Hot_Soak	HOUR00 FRWY	.25685995	.31570240	.31570240	.09079681
RATE VOC .14575013	2.5	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	5	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	10	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	15	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	20	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	25	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	30	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	35	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	40	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	45	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	50	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	55	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	60	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC .14575013	65	Rest_Loss	HOUR00 FRWY	.41378301	.54437953	.54437953	.14575013
RATE VOC 1.1598815	2.5	Run_Loss	HOUR00 FRWY	2.4057445	2.5113253	2.5113253	1.1598815
RATE VOC .32430914	5	Run_Loss	HOUR00 FRWY	.64179807	.66539228	.66539228	.32430914
RATE VOC .13148464	10	Run_Loss	HOUR00 FRWY	.24651566	.25320684	.25320684	.13148464
RATE VOC .08960002	15	Run_Loss	HOUR00 FRWY	.16705243	.17093053	.17093053	.08960002
RATE VOC .06345799	20	Run_Loss	HOUR00 FRWY	.12134099	.12410476	.12410476	.06345799
RATE VOC .05183497	25	Run_Loss	HOUR00 FRWY	.09828700	.10045263	.10045263	.05183497
RATE VOC .04321233	30	Run_Loss	HOUR00 FRWY	.08181840	.08372861	.08372861	.04321233
RATE VOC .03630418	35	Run_Loss	HOUR00 FRWY	.06911286	.07096345	.07096345	.03630418
RATE VOC .03046759	40	Run_Loss	HOUR00 FRWY	.05875924	.06067260	.06067260	.03046759
RATE VOC .02534537	45	Run_Loss	HOUR00 FRWY	.04997358	.05203128	.05203128	.02534537
RATE VOC .02090779	50	Run_Loss	HOUR00 FRWY	.04183640	.04382772	.04382772	.02090779
RATE VOC .01758178	55	Run_Loss	HOUR00 FRWY	.03490477	.03655227	.03655227	.01758178

RATE VOC .01502786	60	Run_Loss	HOUR00	FRWY	.02960634	.03099220	.03099220	.01502786
RATE VOC .01302147	65	Run_Loss	HOUR00	FRWY	.02546242	.02664455	.02664455	.01302147
RATE VOC .00965863	2.5	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	5	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	10	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	15	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	20	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	25	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	30	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	35	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	40	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	45	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	50	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	55	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	60	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863
RATE VOC .00965863	65	Crankcase	HOUR00	FRWY	.00817441	.01171295	.01171295	.00965863