

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 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 Harris County.

SAMPLE PAGE of a final emission factor file: 30aug2007harr.rat

RATE	POL	SPEED	ETYPE	HOUR	RDW	LDGV	LDGT1	LDGT2	LDGT3	LDGT4
RATE	VOC	2.5	COMPOSITE	HOUR00	FRWY	5.5472126	5.2819333	5.4368271	2.8751156	3.0570559
RATE	VOC	5	COMPOSITE	HOUR00	FRWY	2.5358820	2.5470356	2.6559326	1.4607098	1.5885807
RATE	VOC	10	COMPOSITE	HOUR00	FRWY	1.7343405	1.7806983	1.8556451	.97815430	1.0659195
RATE	VOC	15	COMPOSITE	HOUR00	FRWY	1.5405300	1.5870996	1.6489043	.83625561	.90846401
RATE	VOC	20	COMPOSITE	HOUR00	FRWY	1.4603780	1.5100067	1.5694779	.78941696	.85889405
RATE	VOC	25	COMPOSITE	HOUR00	FRWY	1.4186503	1.4704518	1.5285221	.76683676	.83467429
RATE	VOC	30	COMPOSITE	HOUR00	FRWY	1.3896330	1.4430873	1.5002231	.75092017	.81766402
RATE	VOC	35	COMPOSITE	HOUR00	FRWY	1.3653322	1.4188439	1.4744390	.73559701	.80044919
RATE	VOC	40	COMPOSITE	HOUR00	FRWY	1.3496455	1.4039534	1.4588208	.72738075	.79126638
RATE	VOC	45	COMPOSITE	HOUR00	FRWY	1.3364340	1.3912185	1.4453582	.72011673	.78303581
RATE	VOC	50	COMPOSITE	HOUR00	FRWY	1.3240031	1.3791059	1.4325180	.71367037	.77562290
RATE	VOC	55	COMPOSITE	HOUR00	FRWY	1.3131289	1.3682762	1.4209605	.70856779	.76955384
RATE	VOC	60	COMPOSITE	HOUR00	FRWY	1.3048211	1.3596888	1.4116454	.70448678	.76446962
RATE	VOC	65	COMPOSITE	HOUR00	FRWY	1.2982991	1.3526144	1.4038730	.70104420	.76002836
RATE	VOC	2.5	EXH_RUNNING	HOUR00	FRWY	.63005197	.78841871	.90513324	.77599084	.91348338
RATE	VOC	5	EXH_RUNNING	HOUR00	FRWY	.38679266	.47122433	.54194188	.46983322	.55325639
RATE	VOC	10	EXH_RUNNING	HOUR00	FRWY	.20274257	.24581557	.28258287	.24223355	.28555101
RATE	VOC	15	EXH_RUNNING	HOUR00	FRWY	.13156719	.16093221	.18455739	.15542964	.18319036
RATE	VOC	20	EXH_RUNNING	HOUR00	FRWY	.12094171	.14613917	.16743077	.14273689	.16776625
RATE	VOC	25	EXH_RUNNING	HOUR00	FRWY	.11494517	.13761830	.15750905	.13537199	.15876178
RATE	VOC	30	EXH_RUNNING	HOUR00	FRWY	.11126311	.13223350	.15118978	.13067103	.15296709
RATE	VOC	35	EXH_RUNNING	HOUR00	FRWY	.10635752	.12479597	.14221154	.12427790	.14468236
RATE	VOC	40	EXH_RUNNING	HOUR00	FRWY	.10635329	.12347760	.14016546	.12356326	.14300115
RATE	VOC	45	EXH_RUNNING	HOUR00	FRWY	.10634907	.12215920	.13811937	.12284860	.14131993
RATE	VOC	50	EXH_RUNNING	HOUR00	FRWY	.10634486	.12084081	.13607327	.12213395	.13963875
RATE	VOC	55	EXH_RUNNING	HOUR00	FRWY	.10634063	.11952243	.13402719	.12141930	.13795755
RATE	VOC	60	EXH_RUNNING	HOUR00	FRWY	.10633643	.11820405	.13198107	.12070465	.13623970
RATE	VOC	65	EXH_RUNNING	HOUR00	FRWY	.10630496	.11681374	.12989284	.11990439	.13444076
RATE	VOC	2.5	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	5	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	10	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	15	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	20	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	25	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	30	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	35	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	40	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	45	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	50	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	55	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	60	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	65	START	HOUR00	FRWY	.29048922	.36558347	.40376302	.26468259	.30913031
RATE	VOC	2.5	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE	VOC	5	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459

RATE VOC	10	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	15	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	20	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	25	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	30	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	35	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	40	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	45	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	50	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	55	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	60	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	65	HOT_SOAK	HOUR00	FRWY	.30802047	.27334925	.27334925	.09781459	.09781459
RATE VOC	2.5	REST_LOSS	HOUR00	FRWY	.54594773	.55148887	.55148887	.19283038	.19283038
RATE VOC	5	REST_LOSS	HOUR00	FRWY	.54594773	.55148887	.55148887	.19283038	.19283038
RATE VOC	10	REST_LOSS	HOUR00	FRWY	.54594773	.55148887	.55148887	.19283038	.19283038
RATE VOC	15	REST_LOSS	HOUR00	FRWY	.54594773	.55148887	.55148887	.19283038	.19283038
RATE VOC	20	REST_LOSS	HOUR00	FRWY	.54594773	.55148887	.55148887	.19283038	.19283038
RATE VOC	25	REST_LOSS	HOUR00	FRWY	.54594773	.55148887	.55148887	.19283038	.19283038
RATE VOC	30	REST_LOSS	HOUR00	FRWY	.54594773	.55148887	.55148887	.19283038	.19283038
RATE VOC	35	REST_LOSS	HOUR00	FRWY	.54594773	.55148887	.55148887	.19283038	.19283038
RATE VOC	40	REST_LOSS	HOUR00	FRWY	.54594773	.55148887	.55148887	.19283038	.19283038
RATE VOC	45	REST_LOSS	HOUR00	FRWY	.54594773	.55148887	.55148887	.19283038	.19283038