

Appendix C: Mobile 6.2 Sample Input

The following table provides a guide to the MOBILE 6.2 Input files included in the appendix. A sample portion of a 2035 input file as used in the analysis for the City of Fredericksburg is provided. Copies of complete input files are available upon request.

Header section of the input file:	
MOBILE6 Input Header	What the header means:
DATABASE OUTPUT	Specifies MOBILE6 to report output in database format for all scenarios.
DAILY OUTPUT	Database output will represent daily rather than hourly time periods.
WITH FIELDNAMES	Directs MOBILE6 to place a row of column names in the first row of the database output table.
AGGEGATED OUTPUT	Database output will represent daily rather than hourly time periods that will reduce the volume of reported output.
Run Segment:	
RUN DATA	Marks the end of the header section and beginning of run section of command input file. Administrative function—no information required.
EXPRESS HC AS VOC	Directs MOBILE6 to output exhaust HC as volatile organic compounds.
REG DIST	Allows user to supply vehicle registration distributions by vehicle age for all 16 composite vehicle types. Command requires an external data file.
NO REFUELING	Directs MOBILE6 not to calculate the refueling emissions from gasoline-fueled vehicles.
94+ LDG IMP	Allows the user to input optional 1994 and later fleet penetration fractions for light-duty gasoline vehicles under NLEV.
HOURLY TEMPERATURE	Specifies hourly temperatures that the user wishes to model in a scenario.
FUEL PROGRAM	Designates fuel sulfur level of gasoline and whether RFG use should be assumed
FUEL RVP	Required input of average fuel Reid vapor pressure.
SEASON	Allows users to specify winter or summer RVP independent of evaluation month

Scenario Segment:	
SCENARIO RECORD	Allows MOBILE6 users to label individual scenario results. Marks start of new scenario.
CALENDAR YEAR	Calendar year of the scenario evaluated. Four-digit value for year must be entered. Example: CALENDAR YEAR : 2015
EVALUTION MONTH	Specifies January 1 (<i>winter RFG rules</i>) or July 1 (<i>summer RFG rules</i>) for calendar year of interest. Example: EVALUATION MONTH : 7
VMT FRACTIONS	Allows user to supply vehicle travel data specific to the geographical location they wish to model. Set of 16 fractional values between 0 and 1 in which all 16 values add up to 1.0 Example: VMT FRACTIONS : 0.3540.089 0.297 0.092 0.041 0.040 0.004 0.003 0.002 0.008 0.010 0.012 0.040 0.002 0.001 0.005
AVERAGE SPEED	Allows the user to enter a single average speed to use for all freeways and/or arterial/collectors for the entire day, rather than an average speed distribution
RELATIVE HUMIDITY	Allows user to specify hourly relative humidity values and relate them directly to the hourly temperature values.
BAROMETRIC PRESSURE	Allows user to specify a daily average barometric pressure.
END OF RUN	Marks the end of each Run section and required to separate multiple runs in command input files.

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MOBILE6 INPUT FILE :
>
> Fredericksburg 8-hr Maintenance Area - ANALYSIS OF MOBILE BUDGETS
> 2035 MOBILE SOURCE EMISSIONS - Speeds from post processor -
Fredericksburg
> 2035 analysis year, 2005 registration data provided by VDEQ
> VMT mix based on 2005 Traffic Study for Emissions Inventory
> RFG in Stafford only, NLEV, and no refueling emissions
>

REPORT FILE           : C:\Access\Fredburg\35fred.OUT
DATABASE OUTPUT      :
WITH FIELDNAMES      :
POLLUTANTS           : HC NOX
AGGREGATED OUTPUT    :
EMISSIONS TABLE     : C:\Access\Fredburg\35fred.TXT   REPLACE

RUN DATA            :
EXPRESS HC AS VOC    :
REG DIST             : C:\Access\Fredburg\fredbg05.RDT
NO REFUELING         :
94+ LDG IMP          : C:\Access\Fredburg\NLEVNE.D
HOURLY TEMPERATURES: 68.36 69.44 73.40 78.80 85.46 89.60 92.84 94.28
95.54 95.00 96.08 95.18
                    94.10 91.94 87.26 81.86 79.52 77.36 73.94 72.68
72.14 71.06 70.16 69.26
FUEL PROGRAM         : 1
FUEL RVP             : 8.4

SCENARIO RECORD      : Fredericksburg, Rural Principle Arterial
CALENDAR YEAR        : 2035
EVALUATION MONTH     : 7
VMT FRACTIONS        :
0.40410 0.07634 0.25412 0.07745 0.03562 0.04808 0.00476 0.00382
0.00286 0.01066 0.01261 0.01375 0.04900 0.00243 0.00112 0.00328
AVERAGE SPEED       : 2.5 ARTERIAL
RELATIVE HUMIDITY    : 79.9 80.2 72.3 63.8 52.1 46.6 41.5 38.5 36.2 38.6
35.8 35.5
                    37.3 41.1 51.1 60.2 62.8 67.7 71.9 73.9 74.0 75.7
78.0 78.8
BAROMETRIC PRES      : 30.019

SCENARIO RECORD      : Fredericksburg, Rural Principle Arterial
CALENDAR YEAR        : 2035
EVALUATION MONTH     : 7
VMT FRACTIONS        :
0.40410 0.07634 0.25412 0.07745 0.03562 0.04808 0.00476 0.00382
0.00286 0.01066 0.01261 0.01375 0.04900 0.00243 0.00112 0.00328
AVERAGE SPEED       : 3.0 ARTERIAL
RELATIVE HUMIDITY    : 79.9 80.2 72.3 63.8 52.1 46.6 41.5 38.5 36.2 38.6
35.8 35.5
                    37.3 41.1 51.1 60.2 62.8 67.7 71.9 73.9 74.0 75.7
78.0 78.8
BAROMETRIC PRES      : 30.019

SCENARIO RECORD      : Fredericksburg, Rural Principle Arterial
CALENDAR YEAR        : 2035

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EVALUATION MONTH : 7
 VMT FRACTIONS :
 0.40410 0.07634 0.25412 0.07745 0.03562 0.04808 0.00476 0.00382
 0.00286 0.01066 0.01261 0.01375 0.04900 0.00243 0.00112 0.00328
 AVERAGE SPEED : 4.0 ARTERIAL
 RELATIVE HUMIDITY : 79.9 80.2 72.3 63.8 52.1 46.6 41.5 38.5 36.2 38.6
 35.8 35.5
 37.3 41.1 51.1 60.2 62.8 67.7 71.9 73.9 74.0 75.7
 78.0 78.8
 BAROMETRIC PRES : 30.019

SCENARIO RECORD : Fredericksburg, Rural Principle Arterial
 CALENDAR YEAR : 2035
 EVALUATION MONTH : 7
 VMT FRACTIONS :
 0.40410 0.07634 0.25412 0.07745 0.03562 0.04808 0.00476 0.00382
 0.00286 0.01066 0.01261 0.01375 0.04900 0.00243 0.00112 0.00328
 AVERAGE SPEED : 5.0 ARTERIAL
 RELATIVE HUMIDITY : 79.9 80.2 72.3 63.8 52.1 46.6 41.5 38.5 36.2 38.6
 35.8 35.5
 37.3 41.1 51.1 60.2 62.8 67.7 71.9 73.9 74.0 75.7
 78.0 78.8
 BAROMETRIC PRES : 30.019

SCENARIO RECORD : Fredericksburg, Rural Principle Arterial
 CALENDAR YEAR : 2035
 EVALUATION MONTH : 7
 VMT FRACTIONS :
 0.40410 0.07634 0.25412 0.07745 0.03562 0.04808 0.00476 0.00382
 0.00286 0.01066 0.01261 0.01375 0.04900 0.00243 0.00112 0.00328
 AVERAGE SPEED : 6.0 ARTERIAL
 RELATIVE HUMIDITY : 79.9 80.2 72.3 63.8 52.1 46.6 41.5 38.5 36.2 38.6
 35.8 35.5
 37.3 41.1 51.1 60.2 62.8 67.7 71.9 73.9 74.0 75.7
 78.0 78.8
 BAROMETRIC PRES : 30.019

SCENARIO RECORD : Fredericksburg, Rural Principle Arterial
 CALENDAR YEAR : 2035
 EVALUATION MONTH : 7
 VMT FRACTIONS :
 0.40410 0.07634 0.25412 0.07745 0.03562 0.04808 0.00476 0.00382
 0.00286 0.01066 0.01261 0.01375 0.04900 0.00243 0.00112 0.00328
 AVERAGE SPEED : 7.0 ARTERIAL
 RELATIVE HUMIDITY : 79.9 80.2 72.3 63.8 52.1 46.6 41.5 38.5 36.2 38.6
 35.8 35.5
 37.3 41.1 51.1 60.2 62.8 67.7 71.9 73.9 74.0 75.7
 78.0 78.8
 BAROMETRIC PRES : 30.019

SCENARIO RECORD : Fredericksburg, Rural Principle Arterial
 CALENDAR YEAR : 2035
 EVALUATION MONTH : 7
 VMT FRACTIONS :
 0.40410 0.07634 0.25412 0.07745 0.03562 0.04808 0.00476 0.00382
 0.00286 0.01066 0.01261 0.01375 0.04900 0.00243 0.00112 0.00328
 AVERAGE SPEED : 8.0 ARTERIAL