

2002 Annual MOBILE6.2 Input File

MOBILE6 INPUT FILE :
> HEADER: State - VA / County - Fairfax Revised M0251059.Input file
> For Annual MOBILE factors, using Eval Month 1 and temps 43 and 66.

POLLUTANTS : HC CO NOx
PARTICULATES :
REPORT FILE : FAIR02AN.TXT
DATABASE OUTPUT :
WITH FIELDNAMES :
DAILY OUTPUT :
AGGREGATED OUTPUT :
EMISSIONS TABLE : Fair02AN.TB1 REPLACE
SPREADSHEET : Fair02AN.TAB REPLACE

RUN DATA :
>COMMENTS
>51 059

EXPRESS HC AS VOC :
* EXPAND EVAPORATIVE :
* EXPAND EXHAUST :

NO REFUELING :
WE DA TRI LEN DI : WeekTLD2.WDT
FUEL PROGRAM : 2 S
94+ LDG IMP : NLEVNE.D

* Registration Distribution
REG DIST : R02_FRFX.RDT

* Anti-Tampering Program
ANTI-TAMP PROG :
89 68 50 22222 21111111 1 12 098. 22112222

* Inspection and Maintenance (I/M) Programs
I/M PROGRAM : 1 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS : 1 1968 1980
I/M VEHICLES : 1 22222 21111111 1
I/M STRINGENCY : 1 35
I/M COMPLIANCE : 1 98.0
I/M WAIVER RATES : 1 2.0 2.0

> Exhaust I/M - ASM final program #2
I/M PROGRAM : 2 1983 2050 2 TRC ASM 2525/5015 PHASE-IN
I/M MODEL YEARS : 2 1981 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 35
I/M COMPLIANCE : 2 98.0
I/M WAIVER RATES : 2 2.0 2.0
I/M EFFECTIVENESS : 0.94 0.94 0.94

> Exhaust I/M - IDLE test program #3
I/M PROGRAM : 3 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS : 3 1981 2050
I/M VEHICLES : 3 11111 21111111 1
I/M STRINGENCY : 3 35
I/M COMPLIANCE : 3 98.0
I/M WAIVER RATES : 3 2.0 2.0

> Evap I/M - Gas Cap test program #4
I/M PROGRAM : 4 1998 2050 2 TRC GC
I/M MODEL YEARS : 4 1973 2050
I/M VEHICLES : 4 22222 21111111 1

I/M COMPLIANCE : 4 98.0
I/M WAIVER RATES : 4 2.0 2.0

* Diesel Sales Fractions

DIESEL FRACTIONS :
0.0018 0.0018 0.0022 0.0028 0.0022 0.0013 0.0016 0.0015 0.0005 0.0012
0.0013 0.0029 0.0015 0.0011 0.0007 0.0114 0.0089 0.0573 0.0842 0.1384
0.1989 0.1766 0.1464 0.0780 0.0103
0.0128 0.0206 0.0218 0.0213 0.0197 0.0172 0.0099 0.0126 0.0184 0.0093
0.0110 0.0112 0.0165 0.0424 0.0141 0.0460 0.0312 0.0441 0.0609 0.0619
0.1032 0.0866 0.0529 0.0337 0.0108
0.0128 0.0206 0.0218 0.0213 0.0197 0.0172 0.0099 0.0126 0.0184 0.0093
0.0110 0.0112 0.0165 0.0424 0.0141 0.0460 0.0312 0.0441 0.0609 0.0619
0.1032 0.0866 0.0529 0.0337 0.0108
0.0126 0.0126 0.0126 0.0126 0.0126 0.0126 0.0126 0.0115 0.0111 0.0145
0.0115 0.0129 0.0096 0.0083 0.0072 0.0082 0.0124 0.0135 0.0169 0.0209
0.0256 0.0013 0.0006 0.0011 0.0001
0.0126 0.0126 0.0126 0.0126 0.0126 0.0126 0.0126 0.0115 0.0111 0.0145
0.0115 0.0129 0.0096 0.0083 0.0072 0.0082 0.0124 0.0135 0.0169 0.0209
0.0256 0.0013 0.0006 0.0011 0.0001
0.1998 0.1998 0.1998 0.1998 0.1998 0.1998 0.1998 0.2578 0.2515 0.3263
0.2784 0.2963 0.2384 0.2058 0.1756 0.1958 0.2726 0.2743 0.3004 0.2918
0.2859 0.0138 0.0000 0.0000 0.0000
0.6774 0.6774 0.6774 0.6774 0.6774 0.6774 0.6774 0.7715 0.7910 0.8105
0.8068 0.8280 0.8477 0.7940 0.7488 0.7789 0.7842 0.6145 0.5139 0.5032
0.4277 0.0079 0.0000 0.0000 0.0001
0.8606 0.8606 0.8606 0.8606 0.8606 0.8606 0.8606 0.8473 0.8048 0.8331
0.7901 0.7316 0.7275 0.7158 0.5647 0.3178 0.2207 0.1968 0.1570 0.0738
0.0341 0.0414 0.0003 0.0000 0.0000
0.4647 0.4647 0.4647 0.4647 0.4647 0.4647 0.4647 0.4384 0.3670 0.4125
0.3462 0.2771 0.2730 0.2616 0.1543 0.0615 0.0383 0.0333 0.0255 0.0111
0.0049 0.0060 0.0000 0.0000 0.0000
0.6300 0.6300 0.6300 0.6300 0.6300 0.6300 0.6300 0.6078 0.5246 0.5767
0.5289 0.5788 0.5617 0.4537 0.4216 0.4734 0.4705 0.4525 0.4310 0.3569
0.3690 0.4413 0.3094 0.1679 0.1390
0.8563 0.8563 0.8563 0.8563 0.8563 0.8563 0.8563 0.8443 0.7943 0.8266
0.7972 0.8279 0.8177 0.7440 0.7184 0.7588 0.7567 0.7431 0.7261 0.6602
0.6717 0.7344 0.6107 0.4140 0.3610
0.9992 0.9992 0.9992 0.9992 0.9992 0.9992 0.9992 0.9989 0.9987 0.9989
0.9977 0.9984 0.9982 0.9979 0.9969 0.9978 0.9980 0.9979 0.9976 0.9969
0.9978 0.9982 0.9974 0.9965 0.9964
1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
1.0000 1.0000 1.0000 1.0000 1.0000
0.9585 0.9585 0.9585 0.9585 0.9585 0.9585 0.9585 0.8857 0.8525 0.8795
0.9900 0.9105 0.8760 0.7710 0.7502 0.7345 0.6733 0.5155 0.3845 0.3238
0.3260 0.2639 0.0594 0.0460 0.0291

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 2.5 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 2.50 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 10.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 10
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 10.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 15.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 15
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 15.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 30.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 30
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 30.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 40.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 40
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 40.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 55.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 120
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 55.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

END OF RUN :

MOBILE6.2 OUTPUT FILE for 2002 ANNUAL Year

```
*****  
* MOBILE6.2.01 (31-Oct-2002) *  
* Input file: FAIR02AN.IN (file 1, run 1). *  
*****
```

*COMMENTS

*51 059

M603 Comment:

User has disabled the calculation of REFUELING emissions.

* Reading non-default WEEKDAY RUNNING LOSS HOURLY TRIP LENGTH FRACTIONS
* from the following external data file: WEEKTLD2.WDT

M616 Comment:

User has supplied post-1999 sulfur levels.

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D

* Reading Registration Distributions from the following external
* data file: R02_FRFX.RDT

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

* Exhaust I/M - ASM final program #2

* Reading ASM I/M Test Credits from ASMDATA.D

* Exhaust I/M - IDLE test program #3

* Evap I/M - Gas Cap test program #4

M614 Comment:

 User supplied diesel sale fractions.

* #####

* St & Cnty: 51059 MY: 2002 Speed: 2.5 Month: 01 1

* File 1, Run 1, Scenario 1.

* #####

*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 1

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

M583 Warning:

 The user supplied arterial average speed of 2.5
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

* Reading start SOAK distribution from the following external

* data file: SOAKZERO.SK

M615 Comment:

 User supplied VMT mix.

M112 Warning:

 Wintertime Reformulated Gasoline Rules Apply

*** I/M credits for Tech1&2 vehicles were read from the following external

data file: TECH12.D

M 48 Warning:

GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4532	0.3247	0.1268	0.0220	0.0017	0.0092	0.0574	0.0049	1.0000	
Composite Emission Factors (g/mi):										
Composite VOC :	0.558	0.443	0.545	0.472	0.623	0.303	0.224	0.439	1.56	0.515
Composite CO :	7.18	8.10	7.78	8.01	7.13	0.603	0.400	1.974	5.56	7.172
Composite NOX :	0.728	0.832	1.030	0.888	4.714	1.155	0.746	12.267	0.95	1.552

* * * * *
 * St & Cnty: 51059 MY: 2002 Speed: 55.0 Month: 01 1
 * File 1, Run 1, Scenario 22.
 * * * * *
 ^FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 120

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4532	0.3247	0.1268	0.0220	0.0017	0.0092	0.0574	0.0049	1.0000	
Composite Emission Factors (g/mi):										
Composite VOC :	0.507	0.398	0.495	0.425	0.503	0.249	0.184	0.360	1.48	0.463
Composite CO :	8.83	9.94	9.44	9.79	7.86	0.589	0.391	1.928	4.76	8.736
Composite NOX :	0.799	0.909	1.106	0.964	5.243	1.547	0.999	19.163	1.22	2.031

SO4:	0.0023	0.0027	0.0026	0.0027	0.0037	0.0002	0.0002	0.0009	0.0008	0.0024
Total Exhaust PM:	0.0067	0.0075	0.0098	0.0081	0.0652	0.2082	0.1300	0.2966	0.0212	0.0268
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0272	0.0280	0.0303	0.0287	0.0865	0.2287	0.1506	0.3358	0.0378	0.0484
SO2:	0.0291	0.0371	0.0489	0.0404	0.0734	0.0032	0.0046	0.0132	0.0140	0.0340
NH3:	0.1008	0.1005	0.0993	0.1002	0.0451	0.0068	0.0068	0.0270	0.0113	0.0936

* #####
 * St & Cnty: 51059 MY: 2002 Speed: 30.0 Month: 01 1
 * File 1, Run 1, Scenario 6.
 * #####

Calendar Year: 2002
 Month: Jan.
 Gasoline Fuel Sulfur Content: 129. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):

Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0044	0.0048	0.0071	0.0054	0.0615	-----	-----	-----	0.0205	0.0059
ECARBON:	-----	-----	-----	-----	-----	0.1623	0.0532	0.1984	-----	0.0122
OCARBON:	-----	-----	-----	-----	-----	0.0458	0.0766	0.0973	-----	0.0064
SO4:	0.0016	0.0023	0.0022	0.0023	0.0042	0.0002	0.0002	0.0009	0.0005	0.0019
Total Exhaust PM:	0.0060	0.0071	0.0094	0.0077	0.0658	0.2082	0.1300	0.2966	0.0210	0.0263
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0266	0.0276	0.0299	0.0283	0.0870	0.2287	0.1506	0.3358	0.0375	0.0479
SO2:	0.0293	0.0373	0.0490	0.0406	0.0733	0.0032	0.0046	0.0132	0.0141	0.0341
NH3:	0.1008	0.1005	0.0993	0.1002	0.0451	0.0068	0.0068	0.0270	0.0113	0.0936

* #####
 * St & Cnty: 51059 MY: 2002 Speed: 40.0 Month: 01 1
 * File 1, Run 1, Scenario 8.
 * #####

Calendar Year: 2002
 Month: Jan.

SO4:	0.0013	0.0021	0.0020	0.0021	0.0045	0.0002	0.0002	0.0009	0.0004	0.0017
Total Exhaust PM:	0.0057	0.0069	0.0092	0.0075	0.0660	0.2082	0.1300	0.2966	0.0209	0.0261
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0262	0.0274	0.0297	0.0281	0.0873	0.2287	0.1506	0.3358	0.0374	0.0477
SO2:	0.0294	0.0373	0.0490	0.0406	0.0732	0.0032	0.0046	0.0132	0.0141	0.0342
NH3:	0.1008	0.1005	0.0993	0.1002	0.0451	0.0068	0.0068	0.0270	0.0113	0.0936

2002 Ozone MOBILE6.2 Input File

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MOBILE6 INPUT FILE :
> HEADER: State - VA / County - Fairfax   Revised M0251059.INput file

POLLUTANTS          : HC CO NOx
PARTICULATES        :
REPORT FILE          : FAIR02PM.TXT
DATABASE OUTPUT      :
WITH FIELDNAMES      :
DAILY OUTPUT         :
AGGREGATED OUTPUT    :
EMISSIONS TABLE     : Fair02PM.TB1  REPLACE
SPREADSHEET          : Fair02PM.TAB  REPLACE

RUN DATA           :
>COMMENTS
>51 059

EXPRESS HC AS VOC   :
* EXPAND EVAPORATIVE :
* EXPAND EXHAUST     :

NO REFUELING         :
WE DA TRI LEN DI    : WeekTLD2.WDT
FUEL PROGRAM         : 2 S
94+ LDG IMP          : NLEVNE.D

* Registration Distribution
REG DIST             : R02_FRFX.RDT

* Anti-Tampering Program
ANTI-TAMP PROG       :
89 68 50 22222 21111111 1 12 098. 22112222

* Inspection and Maintenance (I/M) Programs
I/M PROGRAM          : 1 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS      : 1 1968 1980
I/M VEHICLES         : 1 22222 21111111 1
I/M STRINGENCY       : 1 35
I/M COMPLIANCE       : 1 98.0
I/M WAIVER RATES     : 1 2.0 2.0

> Exhaust I/M - ASM final program #2
I/M PROGRAM          : 2 1983 2050 2 TRC ASM 2525/5015 PHASE-IN
I/M MODEL YEARS      : 2 1981 2050
I/M VEHICLES         : 2 22222 11111111 1
I/M STRINGENCY       : 2 35
I/M COMPLIANCE       : 2 98.0
I/M WAIVER RATES     : 2 2.0 2.0
I/M EFFECTIVENESS    : 0.94 0.94 0.94

> Exhaust I/M - IDLE test program #3
I/M PROGRAM          : 3 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS      : 3 1981 2050
I/M VEHICLES         : 3 11111 21111111 1
I/M STRINGENCY       : 3 35
I/M COMPLIANCE       : 3 98.0
I/M WAIVER RATES     : 3 2.0 2.0

> Evap I/M - Gas Cap test program #4
I/M PROGRAM          : 4 1998 2050 2 TRC GC
I/M MODEL YEARS      : 4 1973 2050
I/M VEHICLES         : 4 22222 21111111 1
I/M COMPLIANCE       : 4 98.0
I/M WAIVER RATES     : 4 2.0 2.0
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* Diesel Sales Fractions

DIESEL FRACTIONS :

0.0018	0.0018	0.0022	0.0028	0.0022	0.0013	0.0016	0.0015	0.0005	0.0012
0.0013	0.0029	0.0015	0.0011	0.0007	0.0114	0.0089	0.0573	0.0842	0.1384
0.1989	0.1766	0.1464	0.0780	0.0103					
0.0128	0.0206	0.0218	0.0213	0.0197	0.0172	0.0099	0.0126	0.0184	0.0093
0.0110	0.0112	0.0165	0.0424	0.0141	0.0460	0.0312	0.0441	0.0609	0.0619
0.1032	0.0866	0.0529	0.0337	0.0108					
0.0128	0.0206	0.0218	0.0213	0.0197	0.0172	0.0099	0.0126	0.0184	0.0093
0.0110	0.0112	0.0165	0.0424	0.0141	0.0460	0.0312	0.0441	0.0609	0.0619
0.1032	0.0866	0.0529	0.0337	0.0108					
0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0115	0.0111	0.0145
0.0115	0.0129	0.0096	0.0083	0.0072	0.0082	0.0124	0.0135	0.0169	0.0209
0.0256	0.0013	0.0006	0.0011	0.0001					
0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0115	0.0111	0.0145
0.0115	0.0129	0.0096	0.0083	0.0072	0.0082	0.0124	0.0135	0.0169	0.0209
0.0256	0.0013	0.0006	0.0011	0.0001					
0.1998	0.1998	0.1998	0.1998	0.1998	0.1998	0.1998	0.2578	0.2515	0.3263
0.2784	0.2963	0.2384	0.2058	0.1756	0.1958	0.2726	0.2743	0.3004	0.2918
0.2859	0.0138	0.0000	0.0000	0.0000					
0.6774	0.6774	0.6774	0.6774	0.6774	0.6774	0.6774	0.7715	0.7910	0.8105
0.8068	0.8280	0.8477	0.7940	0.7488	0.7789	0.7842	0.6145	0.5139	0.5032
0.4277	0.0079	0.0000	0.0000	0.0001					
0.8606	0.8606	0.8606	0.8606	0.8606	0.8606	0.8606	0.8473	0.8048	0.8331
0.7901	0.7316	0.7275	0.7158	0.5647	0.3178	0.2207	0.1968	0.1570	0.0738
0.0341	0.0414	0.0003	0.0000	0.0000					
0.4647	0.4647	0.4647	0.4647	0.4647	0.4647	0.4647	0.4384	0.3670	0.4125
0.3462	0.2771	0.2730	0.2616	0.1543	0.0615	0.0383	0.0333	0.0255	0.0111
0.0049	0.0060	0.0000	0.0000	0.0000					
0.6300	0.6300	0.6300	0.6300	0.6300	0.6300	0.6300	0.6078	0.5246	0.5767
0.5289	0.5788	0.5617	0.4537	0.4216	0.4734	0.4705	0.4525	0.4310	0.3569
0.3690	0.4413	0.3094	0.1679	0.1390					
0.8563	0.8563	0.8563	0.8563	0.8563	0.8563	0.8563	0.8443	0.7943	0.8266
0.7972	0.8279	0.8177	0.7440	0.7184	0.7588	0.7567	0.7431	0.7261	0.6602
0.6717	0.7344	0.6107	0.4140	0.3610					
0.9992	0.9992	0.9992	0.9992	0.9992	0.9992	0.9992	0.9989	0.9987	0.9989
0.9977	0.9984	0.9982	0.9979	0.9969	0.9978	0.9980	0.9979	0.9976	0.9969
0.9978	0.9982	0.9974	0.9965	0.9964					
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000					
0.9585	0.9585	0.9585	0.9585	0.9585	0.9585	0.9585	0.8857	0.8525	0.8795
0.9900	0.9105	0.8760	0.7710	0.7502	0.7345	0.6733	0.5155	0.3845	0.3238
0.3260	0.2639	0.0594	0.0460	0.0291					

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 1.00 Month: 07 1
 >FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
 PMDDR2.CSV
 PARTICLE SIZE : 10.0
 DIESEL SULFUR : 15.0
 CALENDAR YEAR : 2002
 EVALUATION MONTH : 7
 MIN/MAX TEMPERATURE: 68.5 95.0
 ALTITUDE : 1
 AVERAGE SPEED : 2.50 Arterial
 SOAK DISTRIBUTION : SOAKZERO.SK
 FUEL RVP : 7.80

VMT FRACTIONS :
 0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
 0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 10.0 Month: 07 1
 >FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 10

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 10.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 15.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 15
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 15.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 30.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 30
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 30.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 40.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 40
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 40.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :

0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 50.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 115
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 50.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2002 Speed: 55.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 120
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2002
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 55.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

END OF RUN :

MOBILE6.2 OUTPUT FILE for 2002 Ozone Season

```
*****
* MOBILE6.2.01 (31-Oct-2002) *
* Input file: FAIR02PM.IN (file 1, run 1). *
*****
```

*COMMENTS

*51 059

M603 Comment:

User has disabled the calculation of REFUELING emissions.

* Reading non-default WEEKDAY RUNNING LOSS HOURLY TRIP LENGTH FRACTIONS
* from the following external data file: WEEKTLD2.WDT

M616 Comment:

User has supplied post-1999 sulfur levels.

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D

* Reading Registration Distributions from the following external
* data file: R02_FRFX.RDT

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)
* Exhaust I/M - ASM final program #2
* Reading ASM I/M Test Credits from ASMDATA.D
* Exhaust I/M - IDLE test program #3
* Evap I/M - Gas Cap test program #4
M614 Comment:
User supplied diesel sale fractions.
* #
* St & Cnty: 51059 MY: 2002 Speed: 2.50 Month: 07 1
* File 1, Run 1, Scenario 1.
* #
*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 1
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
M583 Warning:
The user supplied arterial average speed of 2.5
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
* Reading start SOAK distribution from the following external
* data file: SOAKZERO.SK
M615 Comment:
User supplied VMT mix.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D
M 48 Warning:
there are no sales for vehicle class HDGV8b

* Reading Ammonia (NH3) Basic Emission Rates
* from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
* from the external data file PMNH3SDR.D

LEV phase-in data read from file NLEVNE.D

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 68.5 (F)
Maximum Temperature: 95.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 129. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite VOC :	7.180	5.320	5.818	5.460	7.900	1.172	0.864	1.696	9.37	6.048
Composite CO :	32.91	26.48	27.62	26.80	46.51	3.838	2.544	12.364	112.17	29.337
Composite NOX :	2.036	1.884	2.243	1.985	3.279	2.220	1.438	21.034	0.64	3.118

* #
* St & Cnty: 51059 MY: 2002 Speed: 10.0 Month: 07 1
* File 1, Run 1, Scenario 3.

* #
* FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 10

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite VOC :	1.301	1.061	1.281	1.123	2.264	0.809	0.596	1.170	3.61	1.238
Composite CO :	10.80	9.59	9.44	9.55	24.72	2.160	1.432	6.960	31.04	10.321

Composite NOX : 1.293 1.269 1.530 1.342 3.535 1.655 1.073 16.268 0.52 2.219

* #####
* St & Cnty: 51059 MY: 2002 Speed: 15.0 Month: 07 1
* File 1, Run 1, Scenario 4.

*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 15

Table with 11 columns: Vehicle Type, LDGV, LDGT12, LDGT34, LDGT, HDGV, LDDV, LDDT, HDDV, MC, All Veh. Row 1: GVWR (<6000, >6000, (All)). Row 2: VMT Distribution (0.4533, 0.3250, 0.1268, 0.0220, 0.0016, 0.0090, 0.0574, 0.0049, 1.0000).

Composite Emission Factors (g/mi):

Table with 11 columns: Composite VOC, Composite CO, Composite NOX. Row 1: 1.001, 0.799, 0.971, 0.847, 1.632, 0.649, 0.478, 0.939, 2.76, 0.945. Row 2: 9.13, 8.30, 8.10, 8.25, 17.38, 1.559, 1.033, 5.022, 20.16, 8.644. Row 3: 1.047, 1.053, 1.282, 1.117, 3.705, 1.423, 0.922, 14.306, 0.54, 1.895.

* #####
* St & Cnty: 51059 MY: 2002 Speed: 30.0 Month: 07 1
* File 1, Run 1, Scenario 7.

*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 30

Table with 11 columns: Vehicle Type, LDGV, LDGT12, LDGT34, LDGT, HDGV, LDDV, LDDT, HDDV, MC, All Veh. Row 1: GVWR (<6000, >6000, (All)). Row 2: VMT Distribution (0.4533, 0.3250, 0.1268, 0.0220, 0.0016, 0.0090, 0.0574, 0.0049, 1.0000).

Composite Emission Factors (g/mi):

Table with 11 columns: Composite VOC, Composite CO, Composite NOX. Row 1: 0.698, 0.537, 0.665, 0.573, 0.857, 0.383, 0.282, 0.554, 1.95, 0.638. Row 2: 7.94, 7.72, 7.38, 7.63, 8.40, 0.770, 0.510, 2.480, 9.86, 7.427. Row 3: 0.786, 0.830, 1.026, 0.885, 4.217, 1.118, 0.725, 11.735, 0.70, 1.534.

* #####
* St & Cnty: 51059 MY: 2002 Speed: 40.0 Month: 07 1
* File 1, Run 1, Scenario 9.

*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 40

Table with 11 columns: Vehicle Type, LDGV, LDGT12, LDGT34, LDGT, HDGV, LDDV, LDDT, HDDV, MC, All Veh. Row 1: GVWR (<6000, >6000, (All)).

VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.634	0.483	0.602	0.516	0.676	0.301	0.221	0.435	1.71	0.571
Composite CO :	8.99	8.89	8.41	8.76	6.81	0.604	0.400	1.945	7.07	8.331
Composite NOX :	0.763	0.824	1.016	0.878	4.558	1.138	0.737	11.897	0.77	1.538

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* St & Cnty: 51059 MY: 2002 Speed: 50.0 Month: 07 1
* File 1, Run 1, Scenario 23.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 115

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.599	0.451	0.568	0.484	0.585	0.258	0.190	0.373	1.64	0.534
Composite CO :	10.51	10.45	9.80	10.27	6.87	0.568	0.376	1.830	6.06	9.693
Composite NOX :	0.791	0.866	1.055	0.919	4.899	1.334	0.864	16.867	0.86	1.864

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* St & Cnty: 51059 MY: 2002 Speed: 55.0 Month: 07 1
* File 1, Run 1, Scenario 24.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 120

```

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 68.5 (F)
 Maximum Temperature: 95.0 (F)
 Absolute Humidity: 75. grains/lb
 Fuel Sulfur Content: 129. ppm
 Exhaust I/M Program: Yes

Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: Yes

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite VOC :	0.585	0.439	0.554	0.471	0.560	0.247	0.182	0.357	1.64	0.521
Composite CO :	11.27	11.23	10.49	11.02	7.50	0.590	0.391	1.900	6.06	10.397
Composite NOX :	0.807	0.888	1.076	0.940	5.069	1.523	0.987	18.466	0.99	1.978

Gasoline Fuel Sulfur Content: 129. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDTV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0044	0.0047	0.0069	0.0053	0.0608	-----	-----	-----	0.0205	0.0058
ECARBON:	-----	-----	-----	-----	-----	0.1599	0.0524	0.1918	-----	0.0117
OCARBON:	-----	-----	-----	-----	-----	0.0451	0.0753	0.0942	-----	0.0062
SO4:	0.0023	0.0027	0.0026	0.0027	0.0038	0.0002	0.0002	0.0009	0.0008	0.0024
Total Exhaust PM:	0.0067	0.0074	0.0095	0.0080	0.0646	0.2052	0.1279	0.2869	0.0212	0.0261
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0272	0.0280	0.0301	0.0286	0.0859	0.2257	0.1485	0.3261	0.0378	0.0477
SO2:	0.0291	0.0372	0.0489	0.0405	0.0733	0.0032	0.0046	0.0132	0.0140	0.0340
NH3:	0.1009	0.1006	0.0995	0.1003	0.0451	0.0068	0.0068	0.0270	0.0113	0.0937

* #
 * St & Cnty: 51059 MY: 2002 Speed: 30.0 Month: 07 1
 * File 1, Run 1, Scenario 7.
 * #

Calendar Year: 2002
 Month: July
 Gasoline Fuel Sulfur Content: 129. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDTV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0044	0.0047	0.0069	0.0053	0.0608	-----	-----	-----	0.0205	0.0058
ECARBON:	-----	-----	-----	-----	-----	0.1599	0.0524	0.1918	-----	0.0117
OCARBON:	-----	-----	-----	-----	-----	0.0451	0.0753	0.0942	-----	0.0062
SO4:	0.0016	0.0023	0.0022	0.0022	0.0043	0.0002	0.0002	0.0009	0.0005	0.0019

Month: July
 Gasoline Fuel Sulfur Content: 129. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0044	0.0047	0.0069	0.0053	0.0608	-----	-----	-----	0.0205	0.0058
ECARBON:	-----	-----	-----	-----	-----	0.1599	0.0524	0.1918	-----	0.0117
OCARBON:	-----	-----	-----	-----	-----	0.0451	0.0753	0.0942	-----	0.0062
SO4:	0.0013	0.0021	0.0020	0.0021	0.0046	0.0002	0.0002	0.0009	0.0004	0.0017
Total Exhaust PM:	0.0057	0.0068	0.0089	0.0074	0.0654	0.2052	0.1279	0.2869	0.0209	0.0254
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0262	0.0274	0.0295	0.0279	0.0867	0.2257	0.1485	0.3261	0.0374	0.0470
SO2:	0.0294	0.0374	0.0491	0.0407	0.0731	0.0032	0.0046	0.0132	0.0141	0.0342
NH3:	0.1009	0.1006	0.0995	0.1003	0.0451	0.0068	0.0068	0.0270	0.0113	0.0937

2010 Annual MOBILE6.2 Input File

MOBILE6 INPUT FILE :

> HEADER: State - VA / County - Fairfax Revised M0251059.INput file
> For 2010 Annual MOBILE factors, using Eval Month 1 and temps 43 and 66.

POLLUTANTS : HC CO NOx
PARTICULATES :
REPORT FILE : FAIR10AN.TXT
DATABASE OUTPUT :
WITH FIELDNAMES :
DAILY OUTPUT :
AGGREGATED OUTPUT :
SPREADSHEET : Fair10AN.TAB REPLACE

RUN DATA :

>COMMENTS

>51 059

EXPRESS HC AS VOC :
* EXPAND EVAPORATIVE :
* EXPAND EXHAUST :

NO REFUELING :
WE DA TRI LEN DI : WeekTLD2.WDT
FUEL PROGRAM : 2 S
94+ LDG IMP : NLEVNE.D

* Registration Distribution - kept 2002 Reg Data, 2010 not available
REG DIST : R02_FRFX.RDT

* Anti-Tampering Program
ANTI-TAMP PROG :
89 68 50 22222 21111111 1 12 098. 22112222

* Inspection and Maintenance (I/M) Programs
I/M PROGRAM : 1 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS : 1 1968 1980
I/M VEHICLES : 1 22222 21111111 1
I/M STRINGENCY : 1 35
I/M COMPLIANCE : 1 98.0
I/M WAIVER RATES : 1 2.0 2.0

> Exhaust I/M - ASM final program #2
I/M PROGRAM : 2 1983 2050 2 TRC ASM 2525/5015 PHASE-IN
I/M MODEL YEARS : 2 1981 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 35
I/M COMPLIANCE : 2 98.0
I/M WAIVER RATES : 2 2.0 2.0
I/M EFFECTIVENESS : 0.94 0.94 0.94

> Exhaust I/M - IDLE test program #3
I/M PROGRAM : 3 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS : 3 1981 2050
I/M VEHICLES : 3 11111 21111111 1
I/M STRINGENCY : 3 35
I/M COMPLIANCE : 3 98.0
I/M WAIVER RATES : 3 2.0 2.0

> Evap I/M - Gas Cap test program #4
I/M PROGRAM : 4 1998 2050 2 TRC GC
I/M MODEL YEARS : 4 1973 2050
I/M VEHICLES : 4 22222 21111111 1
I/M COMPLIANCE : 4 98.0
I/M WAIVER RATES : 4 2.0 2.0

* Diesel Sales Fractions

DIESEL FRACTIONS :

0.0018	0.0018	0.0022	0.0028	0.0022	0.0013	0.0016	0.0015	0.0005	0.0012
0.0013	0.0029	0.0015	0.0011	0.0007	0.0114	0.0089	0.0573	0.0842	0.1384
0.1989	0.1766	0.1464	0.0780	0.0103					
0.0128	0.0206	0.0218	0.0213	0.0197	0.0172	0.0099	0.0126	0.0184	0.0093
0.0110	0.0112	0.0165	0.0424	0.0141	0.0460	0.0312	0.0441	0.0609	0.0619
0.1032	0.0866	0.0529	0.0337	0.0108					
0.0128	0.0206	0.0218	0.0213	0.0197	0.0172	0.0099	0.0126	0.0184	0.0093
0.0110	0.0112	0.0165	0.0424	0.0141	0.0460	0.0312	0.0441	0.0609	0.0619
0.1032	0.0866	0.0529	0.0337	0.0108					
0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0115	0.0111	0.0145
0.0115	0.0129	0.0096	0.0083	0.0072	0.0082	0.0124	0.0135	0.0169	0.0209
0.0256	0.0013	0.0006	0.0011	0.0001					
0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0115	0.0111	0.0145
0.0115	0.0129	0.0096	0.0083	0.0072	0.0082	0.0124	0.0135	0.0169	0.0209
0.0256	0.0013	0.0006	0.0011	0.0001					
0.1998	0.1998	0.1998	0.1998	0.1998	0.1998	0.1998	0.2578	0.2515	0.3263
0.2784	0.2963	0.2384	0.2058	0.1756	0.1958	0.2726	0.2743	0.3004	0.2918
0.2859	0.0138	0.0000	0.0000	0.0000					
0.6774	0.6774	0.6774	0.6774	0.6774	0.6774	0.6774	0.7715	0.7910	0.8105
0.8068	0.8280	0.8477	0.7940	0.7488	0.7789	0.7842	0.6145	0.5139	0.5032
0.4277	0.0079	0.0000	0.0000	0.0001					
0.8606	0.8606	0.8606	0.8606	0.8606	0.8606	0.8606	0.8473	0.8048	0.8331
0.7901	0.7316	0.7275	0.7158	0.5647	0.3178	0.2207	0.1968	0.1570	0.0738
0.0341	0.0414	0.0003	0.0000	0.0000					
0.4647	0.4647	0.4647	0.4647	0.4647	0.4647	0.4647	0.4384	0.3670	0.4125
0.3462	0.2771	0.2730	0.2616	0.1543	0.0615	0.0383	0.0333	0.0255	0.0111
0.0049	0.0060	0.0000	0.0000	0.0000					
0.6300	0.6300	0.6300	0.6300	0.6300	0.6300	0.6300	0.6078	0.5246	0.5767
0.5289	0.5788	0.5617	0.4537	0.4216	0.4734	0.4705	0.4525	0.4310	0.3569
0.3690	0.4413	0.3094	0.1679	0.1390					
0.8563	0.8563	0.8563	0.8563	0.8563	0.8563	0.8563	0.8443	0.7943	0.8266
0.7972	0.8279	0.8177	0.7440	0.7184	0.7588	0.7567	0.7431	0.7261	0.6602
0.6717	0.7344	0.6107	0.4140	0.3610					
0.9992	0.9992	0.9992	0.9992	0.9992	0.9992	0.9992	0.9989	0.9987	0.9989
0.9977	0.9984	0.9982	0.9979	0.9969	0.9978	0.9980	0.9979	0.9976	0.9969
0.9978	0.9982	0.9974	0.9965	0.9964					
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000					
0.9585	0.9585	0.9585	0.9585	0.9585	0.9585	0.9585	0.8857	0.8525	0.8795
0.9900	0.9105	0.8760	0.7710	0.7502	0.7345	0.6733	0.5155	0.3845	0.3238
0.3260	0.2639	0.0594	0.0460	0.0291					

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 2.5 Month: 01 1
 >FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 1
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
 PMDDR2.CSV
 PARTICLE SIZE : 10.0
 DIESEL SULFUR : 15.0
 CALENDAR YEAR : 2010
 EVALUATION MONTH : 1
 MIN/MAX TEMPERATURE: 42.6 65.6
 ALTITUDE : 1
 AVERAGE SPEED : 2.50 Arterial
 SOAK DISTRIBUTION : SOAKZERO.SK
 FUEL RVP : 7.80

VMT FRACTIONS :
 0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
 0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 10.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 10
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 10.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 15.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 15
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 15.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 30.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 30
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 30.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 40.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 40
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1

AVERAGE SPEED : 40.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 50.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 115
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 50.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 55.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 120
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 55.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

END OF RUN :

MOBILE6.2 OUTPUT FILE for 2010 ANNUAL Year

```
*****  
* MOBILE6.2.01 (31-Oct-2002) *  
* Input file: FAIR10AN.IN (file 1, run 1). *  
*****
```

*COMMENTS

*51 059

M603 Comment:

User has disabled the calculation of REFUELING emissions.

* Reading non-default WEEKDAY RUNNING LOSS HOURLY TRIP LENGTH FRACTIONS
* from the following external data file: WEEKTLD2.WDT

M616 Comment:

User has supplied post-1999 sulfur levels.

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D

* Reading Registration Distributions from the following external
* data file: R02_FRFX.RDT

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

* Exhaust I/M - ASM final program #2

* Reading ASM I/M Test Credits from ASMDATA.D

* Exhaust I/M - IDLE test program #3

* Evap I/M - Gas Cap test program #4

M614 Comment:

User supplied diesel sale fractions.

* #####

* St & Cnty: 51059 MY: 2010 Speed: 2.5 Month: 01 1

* File 1, Run 1, Scenario 1.

* #####

*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 1

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

M583 Warning:

The user supplied arterial average speed of 2.5
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

* Reading start SOAK distribution from the following external

* data file: SOAKZERO.SK

M615 Comment:

User supplied VMT mix.

M112 Warning:

Wintertime Reformulated Gasoline Rules Apply

*** I/M credits for Tech1&2 vehicles were read from the following external

data file: TECH12.D

M 48 Warning:

there are no sales for vehicle class HDGV8b

* Reading Ammonia (NH3) Basic Emission Rates
 * from the external data file PMNH3BER.D
 * Reading Ammonia (NH3) Sulfur Deterioration Rates
 * from the external data file PMNH3SDR.D

LEV phase-in data read from file NLEVNE.D
 Calendar Year: 2010
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 42.6 (F)
 Maximum Temperature: 65.6 (F)
 Absolute Humidity: 75. grains/lb
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000	(All)						
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite VOC :	3.505	2.586	3.242	2.770	4.357	0.938	0.366	1.037	8.99	3.044
Composite CO :	20.01	18.63	19.59	18.90	33.81	3.520	1.573	5.550	88.25	19.119
Composite NOX :	0.676	0.806	1.078	0.882	1.436	1.498	0.457	9.151	0.79	1.273

* #
 * St & Cnty: 51059 MY: 2010 Speed: 10.0 Month: 01 1
 * File 1, Run 1, Scenario 2.
 * #
 * FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 10

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000	(All)						
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite VOC :	0.642	0.512	0.688	0.561	1.152	0.647	0.252	0.716	3.31	0.630
Composite CO :	6.73	6.62	6.76	6.66	17.97	1.981	0.885	3.124	24.42	6.761
Composite NOX :	0.469	0.559	0.749	0.613	1.548	1.117	0.340	6.838	0.64	0.924


```
* #####
* St & Cnty: 51059 MY: 2010 Speed: 40.0 Month: 01 1
* File 1, Run 1, Scenario 8.
* #####
*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 40
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.314	0.235	0.317	0.258	0.358	0.241	0.094	0.266	1.44	0.290
Composite CO :	4.94	4.92	4.98	4.94	4.95	0.554	0.247	0.873	5.56	4.659
Composite NOX :	0.315	0.379	0.519	0.418	1.997	0.768	0.234	4.717	0.95	0.654

```
* #####
* St & Cnty: 51059 MY: 2010 Speed: 55.0 Month: 01 1
* File 1, Run 1, Scenario 12.
* #####
*FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 120
```

M581 Warning:

The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.288	0.220	0.291	0.240	0.300	0.197	0.077	0.218	1.37	0.266
Composite CO :	6.04	6.03	6.07	6.04	5.45	0.541	0.242	0.853	4.76	5.661
Composite NOX :	0.348	0.415	0.557	0.455	2.221	1.028	0.313	6.734	1.22	0.809

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0039	0.0038	0.0039	0.0038	0.0324	-----	-----	-----	0.0205	0.0043
ECARBON:	-----	-----	-----	-----	-----	0.0683	0.0144	0.0687	-----	0.0042
OCARBON:	-----	-----	-----	-----	-----	0.0193	0.0207	0.0338	-----	0.0022
SO4:	0.0005	0.0006	0.0006	0.0006	0.0012	0.0002	0.0002	0.0009	0.0002	0.0006
Total Exhaust PM:	0.0044	0.0044	0.0045	0.0044	0.0336	0.0877	0.0352	0.1034	0.0207	0.0113
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0249	0.0250	0.0251	0.0250	0.0549	0.1083	0.0558	0.1426	0.0372	0.0329
SO2:	0.0067	0.0088	0.0115	0.0095	0.0167	0.0029	0.0046	0.0131	0.0033	0.0085
NH3:	0.1017	0.1017	0.1012	0.1015	0.0451	0.0068	0.0068	0.0270	0.0113	0.0946

* * * * *
* St & Cnty: 51059 MY: 2010 Speed: 15.0 Month: 01 1
* File 1, Run 1, Scenario 3.
* * * * *

Calendar Year: 2010
Month: Jan.
Gasoline Fuel Sulfur Content: 30. ppm
Diesel Fuel Sulfur Content: 15. ppm
Particle Size Cutoff: 10.00 Microns
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0039	0.0038	0.0039	0.0038	0.0324	-----	-----	-----	0.0205	0.0043
ECARBON:	-----	-----	-----	-----	-----	0.0683	0.0144	0.0687	-----	0.0042
OCARBON:	-----	-----	-----	-----	-----	0.0193	0.0207	0.0338	-----	0.0022
SO4:	0.0005	0.0006	0.0006	0.0006	0.0012	0.0002	0.0002	0.0009	0.0002	0.0006
Total Exhaust PM:	0.0044	0.0044	0.0045	0.0044	0.0336	0.0877	0.0352	0.1034	0.0207	0.0113
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0249	0.0250	0.0251	0.0250	0.0549	0.1083	0.0558	0.1426	0.0372	0.0329
SO2:	0.0067	0.0088	0.0115	0.0095	0.0167	0.0029	0.0046	0.0131	0.0033	0.0085
NH3:	0.1017	0.1017	0.1012	0.1015	0.0451	0.0068	0.0068	0.0270	0.0113	0.0946

Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0041	0.0039	0.0041	0.0040	0.0320	-----	-----	-----	0.0205	0.0044
ECARBON:	-----	-----	-----	-----	-----	0.0683	0.0144	0.0687	-----	0.0042
OCARBON:	-----	-----	-----	-----	-----	0.0193	0.0207	0.0338	-----	0.0022
SO4:	0.0002	0.0004	0.0004	0.0004	0.0018	0.0002	0.0002	0.0009	0.0001	0.0004
Total Exhaust PM:	0.0043	0.0044	0.0045	0.0044	0.0338	0.0877	0.0352	0.1034	0.0206	0.0112
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0248	0.0249	0.0251	0.0249	0.0551	0.1083	0.0558	0.1426	0.0371	0.0328
SO2:	0.0068	0.0088	0.0115	0.0096	0.0166	0.0029	0.0046	0.0131	0.0033	0.0086
NH3:	0.1017	0.1017	0.1012	0.1015	0.0451	0.0068	0.0068	0.0270	0.0113	0.0946

* #####
* St & Cnty: 51059 MY: 2010 Speed: 55.0 Month: 01 1
* File 1, Run 1, Scenario 12.
* #####

Calendar Year: 2010
Month: Jan.
Gasoline Fuel Sulfur Content: 30. ppm
Diesel Fuel Sulfur Content: 15. ppm
Particle Size Cutoff: 10.00 Microns
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	(All)	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4532	0.3247	0.1268	-----	0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):

Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0041	0.0039	0.0041	0.0040	0.0320	-----	-----	-----	0.0205	0.0044
ECARBON:	-----	-----	-----	-----	-----	0.0683	0.0144	0.0687	-----	0.0042
OCARBON:	-----	-----	-----	-----	-----	0.0193	0.0207	0.0338	-----	0.0022
SO4:	0.0002	0.0004	0.0004	0.0004	0.0018	0.0002	0.0002	0.0009	0.0001	0.0004
Total Exhaust PM:	0.0043	0.0044	0.0045	0.0044	0.0338	0.0877	0.0352	0.1034	0.0206	0.0112
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0248	0.0249	0.0251	0.0249	0.0551	0.1083	0.0558	0.1426	0.0371	0.0328
SO2:	0.0068	0.0088	0.0115	0.0096	0.0166	0.0029	0.0046	0.0131	0.0033	0.0086
NH3:	0.1017	0.1017	0.1012	0.1015	0.0451	0.0068	0.0068	0.0270	0.0113	0.0946

2010 Ozone MOBILE6.2 Input File

MOBILE6 INPUT FILE :

> HEADER: State - VA / County - Fairfax Revised M0251059.INput file
> For 2010 Ozone MOBILE factors, using Eval Month 7 and temps 68.5 and 95.0

POLLUTANTS : HC CO NOx
PARTICULATES :
REPORT FILE : FAIR1003.TXT
DATABASE OUTPUT :
WITH FIELDNAMES :
DAILY OUTPUT :
AGGREGATED OUTPUT :
SPREADSHEET : Fair1003.TAB REPLACE

RUN DATA :
>COMMENTS
>51 059

EXPRESS HC AS VOC :
* EXPAND EVAPORATIVE :
* EXPAND EXHAUST :

NO REFUELING :
WE DA TRI LEN DI : WeekTLD2.WDT
FUEL PROGRAM : 2 S
94+ LDG IMP : NLEVNE.D

* Registration Distribution - kept 2002 Reg Data, 2010 not available
REG DIST : R02_FRFX.RDT

* Anti-Tampering Program
ANTI-TAMP PROG :
89 68 50 22222 21111111 1 12 098. 22112222

* Inspection and Maintenance (I/M) Programs
I/M PROGRAM : 1 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS : 1 1968 1980
I/M VEHICLES : 1 22222 21111111 1
I/M STRINGENCY : 1 35
I/M COMPLIANCE : 1 98.0
I/M WAIVER RATES : 1 2.0 2.0

> Exhaust I/M - ASM final program #2
I/M PROGRAM : 2 1983 2050 2 TRC ASM 2525/5015 PHASE-IN
I/M MODEL YEARS : 2 1981 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 35
I/M COMPLIANCE : 2 98.0
I/M WAIVER RATES : 2 2.0 2.0
I/M EFFECTIVENESS : 0.94 0.94 0.94

> Exhaust I/M - IDLE test program #3
I/M PROGRAM : 3 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS : 3 1981 2050
I/M VEHICLES : 3 11111 21111111 1
I/M STRINGENCY : 3 35
I/M COMPLIANCE : 3 98.0
I/M WAIVER RATES : 3 2.0 2.0

> Evap I/M - Gas Cap test program #4
I/M PROGRAM : 4 1998 2050 2 TRC GC
I/M MODEL YEARS : 4 1973 2050
I/M VEHICLES : 4 22222 21111111 1
I/M COMPLIANCE : 4 98.0
I/M WAIVER RATES : 4 2.0 2.0

* Diesel Sales Fractions

DIESEL FRACTIONS :

0.0018	0.0018	0.0022	0.0028	0.0022	0.0013	0.0016	0.0015	0.0005	0.0012
0.0013	0.0029	0.0015	0.0011	0.0007	0.0114	0.0089	0.0573	0.0842	0.1384
0.1989	0.1766	0.1464	0.0780	0.0103					
0.0128	0.0206	0.0218	0.0213	0.0197	0.0172	0.0099	0.0126	0.0184	0.0093
0.0110	0.0112	0.0165	0.0424	0.0141	0.0460	0.0312	0.0441	0.0609	0.0619
0.1032	0.0866	0.0529	0.0337	0.0108					
0.0128	0.0206	0.0218	0.0213	0.0197	0.0172	0.0099	0.0126	0.0184	0.0093
0.0110	0.0112	0.0165	0.0424	0.0141	0.0460	0.0312	0.0441	0.0609	0.0619
0.1032	0.0866	0.0529	0.0337	0.0108					
0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0115	0.0111	0.0145
0.0115	0.0129	0.0096	0.0083	0.0072	0.0082	0.0124	0.0135	0.0169	0.0209
0.0256	0.0013	0.0006	0.0011	0.0001					
0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0115	0.0111	0.0145
0.0115	0.0129	0.0096	0.0083	0.0072	0.0082	0.0124	0.0135	0.0169	0.0209
0.0256	0.0013	0.0006	0.0011	0.0001					
0.1998	0.1998	0.1998	0.1998	0.1998	0.1998	0.1998	0.2578	0.2515	0.3263
0.2784	0.2963	0.2384	0.2058	0.1756	0.1958	0.2726	0.2743	0.3004	0.2918
0.2859	0.0138	0.0000	0.0000	0.0000					
0.6774	0.6774	0.6774	0.6774	0.6774	0.6774	0.6774	0.7715	0.7910	0.8105
0.8068	0.8280	0.8477	0.7940	0.7488	0.7789	0.7842	0.6145	0.5139	0.5032
0.4277	0.0079	0.0000	0.0000	0.0001					
0.8606	0.8606	0.8606	0.8606	0.8606	0.8606	0.8606	0.8473	0.8048	0.8331
0.7901	0.7316	0.7275	0.7158	0.5647	0.3178	0.2207	0.1968	0.1570	0.0738
0.0341	0.0414	0.0003	0.0000	0.0000					
0.4647	0.4647	0.4647	0.4647	0.4647	0.4647	0.4647	0.4384	0.3670	0.4125
0.3462	0.2771	0.2730	0.2616	0.1543	0.0615	0.0383	0.0333	0.0255	0.0111
0.0049	0.0060	0.0000	0.0000	0.0000					
0.6300	0.6300	0.6300	0.6300	0.6300	0.6300	0.6300	0.6078	0.5246	0.5767
0.5289	0.5788	0.5617	0.4537	0.4216	0.4734	0.4705	0.4525	0.4310	0.3569
0.3690	0.4413	0.3094	0.1679	0.1390					
0.8563	0.8563	0.8563	0.8563	0.8563	0.8563	0.8563	0.8443	0.7943	0.8266
0.7972	0.8279	0.8177	0.7440	0.7184	0.7588	0.7567	0.7431	0.7261	0.6602
0.6717	0.7344	0.6107	0.4140	0.3610					
0.9992	0.9992	0.9992	0.9992	0.9992	0.9992	0.9992	0.9989	0.9987	0.9989
0.9977	0.9984	0.9982	0.9979	0.9969	0.9978	0.9980	0.9979	0.9976	0.9969
0.9978	0.9982	0.9974	0.9965	0.9964					
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000					
0.9585	0.9585	0.9585	0.9585	0.9585	0.9585	0.9585	0.8857	0.8525	0.8795
0.9900	0.9105	0.8760	0.7710	0.7502	0.7345	0.6733	0.5155	0.3845	0.3238
0.3260	0.2639	0.0594	0.0460	0.0291					

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 2.5 Month: 07 1
 >FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
 PMDDR2.CSV
 PARTICLE SIZE : 10.0
 DIESEL SULFUR : 15.0
 CALENDAR YEAR : 2010
 EVALUATION MONTH : 7
 MIN/MAX TEMPERATURE: 68.5 95.0
 ALTITUDE : 1
 AVERAGE SPEED : 2.50 Arterial
 SOAK DISTRIBUTION : SOAKZERO.SK
 FUEL RVP : 7.80

VMT FRACTIONS :
 0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
 0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 10.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 10
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 10.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 15.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 15
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 15.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 30.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 30
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 30.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 40.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 40
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1

AVERAGE SPEED : 40.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 50.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 115
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 50.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2010 Speed: 55.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 120
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2010
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 55.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

END OF RUN :

MOBILE6.2 OUTPUT FILE for 2010 Ozone Year

```
*****  
* MOBILE6.2.01 (31-Oct-2002) *  
* Input file: FAIR1003.IN (file 1, run 1). *  
*****
```

*COMMENTS

*51 059

M603 Comment:

User has disabled the calculation of REFUELING emissions.

* Reading non-default WEEKDAY RUNNING LOSS HOURLY TRIP LENGTH FRACTIONS
* from the following external data file: WEEKTLD2.WDT

M616 Comment:

User has supplied post-1999 sulfur levels.

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D

* Reading Registration Distributions from the following external
* data file: R02_FRFX.RDT

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

Composite NOX : 0.553 0.549 0.717 0.596 1.425 1.096 0.326 6.353 0.52 0.923

* #####
* St & Cnty: 51059 MY: 2010 Speed: 15.0 Month: 07 1
* File 1, Run 1, Scenario 3.

* #####
*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 15

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)

VMT Distribution: 0.4533 0.3250 0.1268 0.0220 0.0016 0.0090 0.0574 0.0049 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.512 0.392 0.510 0.426 0.795 0.513 0.198 0.564 2.69 0.490
Composite CO : 5.45 4.95 4.84 4.92 11.41 1.421 0.633 2.119 20.16 5.174
Composite NOX : 0.447 0.457 0.603 0.498 1.493 0.942 0.280 5.469 0.54 0.781

* #####
* St & Cnty: 51059 MY: 2010 Speed: 30.0 Month: 07 1
* File 1, Run 1, Scenario 4.

* #####
*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 30

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)

VMT Distribution: 0.4533 0.3250 0.1268 0.0220 0.0016 0.0090 0.0574 0.0049 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.369 0.271 0.355 0.295 0.458 0.303 0.117 0.333 1.88 0.340
Composite CO : 4.44 4.05 3.94 4.02 5.51 0.702 0.313 1.046 9.86 4.061
Composite NOX : 0.335 0.362 0.485 0.397 1.699 0.740 0.220 4.309 0.70 0.623

* #####
* St & Cnty: 51059 MY: 2010 Speed: 40.0 Month: 07 1
* File 1, Run 1, Scenario 5.

* #####
*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 40

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)

VMT Distribution: 0.4533 0.3250 0.1268 0.0220 0.0016 0.0090 0.0574 0.0049 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.338 0.247 0.323 0.269 0.378 0.238 0.092 0.261 1.64 0.307
Composite CO : 4.91 4.48 4.36 4.45 4.47 0.550 0.245 0.820 7.07 4.417
Composite NOX : 0.326 0.360 0.481 0.394 1.837 0.753 0.224 4.382 0.77 0.625

* #
* St & Cnty: 51059 MY: 2010 Speed: 55.0 Month: 07 1
* File 1, Run 1, Scenario 7.

* #
* FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 120

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)

VMT Distribution: 0.4533 0.3250 0.1268 0.0220 0.0016 0.0090 0.0574 0.0049 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.311 0.230 0.296 0.249 0.324 0.195 0.075 0.214 1.56 0.282
Composite CO : 6.03 5.52 5.37 5.48 4.92 0.538 0.240 0.802 6.06 5.397
Composite NOX : 0.346 0.389 0.511 0.423 2.043 1.008 0.300 6.252 0.99 0.761

MOBILE6.2 OUTPUT FILE for PM for 2010 Ozone Year

MOBILE6.2.01 (31-Oct-2002)
Input file: FAIR1003.IN (file 1, run 1).

St & Cnty: 51059 MY: 2010 Speed: 2.5 Month: 07 1
File 1, Run 1, Scenario 1.

Calendar Year: 2010
Month: July
Gasoline Fuel Sulfur Content: 30. ppm
Diesel Fuel Sulfur Content: 15. ppm
Particle Size Cutoff: 10.00 Microns
Reformulated Gas: Yes

Table with 11 columns: Vehicle Type, LDGV, LDGT12, LDGT34, LDGT, HDGV, LDDV, LDDT, HDDV, MC, All Veh. Includes VMT Distribution and Composite Emission Factors (g/mi).

St & Cnty: 51059 MY: 2010 Speed: 10.0 Month: 07 1
File 1, Run 1, Scenario 2.

Calendar Year: 2010
Month: July
Gasoline Fuel Sulfur Content: 30. ppm

Total Exhaust PM:	0.0044	0.0044	0.0045	0.0044	0.0320	0.0856	0.0334	0.0969	0.0207	0.0108
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0249	0.0249	0.0251	0.0250	0.0532	0.1062	0.0539	0.1361	0.0372	0.0324
SO2:	0.0067	0.0088	0.0115	0.0095	0.0167	0.0029	0.0046	0.0131	0.0033	0.0085
NH3:	0.1017	0.1017	0.1013	0.1016	0.0451	0.0068	0.0068	0.0270	0.0113	0.0947

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* St & Cnty: 51059 MY: 2010 Speed: 30.0 Month: 07 1
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #

```

```

Calendar Year: 2010
Month: July
Gasoline Fuel Sulfur Content: 30. ppm
Diesel Fuel Sulfur Content: 15. ppm
Particle Size Cutoff: 10.00 Microns
Reformulated Gas: Yes

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

```

Composite Emission Factors (g/mi):
Lead: 0.0000 0.0000 0.0000 0.0000 0.0000 ----- ----- 0.0000 0.0000
GASPM: 0.0040 0.0039 0.0040 0.0039 0.0304 ----- ----- 0.0205 0.0043
ECARBON: ----- ----- ----- ----- 0.0667 0.0136 0.0643 ----- 0.0039
OCARBON: ----- ----- ----- ----- 0.0188 0.0195 0.0316 ----- 0.0020
SO4: 0.0003 0.0005 0.0005 0.0005 0.0016 0.0002 0.0002 0.0009 0.0001 0.0005
Total Exhaust PM: 0.0043 0.0044 0.0045 0.0044 0.0321 0.0856 0.0334 0.0969 0.0206 0.0108
Brake: 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125
Tire: 0.0080 0.0080 0.0080 0.0080 0.0087 0.0080 0.0080 0.0266 0.0040 0.0091
Total PM: 0.0249 0.0249 0.0250 0.0249 0.0534 0.1062 0.0539 0.1361 0.0371 0.0324
SO2: 0.0068 0.0088 0.0115 0.0096 0.0166 0.0029 0.0046 0.0131 0.0033 0.0085
NH3: 0.1017 0.1017 0.1013 0.1016 0.0451 0.0068 0.0068 0.0270 0.0113 0.0947

```

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* St & Cnty: 51059 MY: 2010 Speed: 40.0 Month: 07 1
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #

```

```

Calendar Year: 2010
Month: July

```

Gasoline Fuel Sulfur Content: 30. ppm
Diesel Fuel Sulfur Content: 15. ppm
Particle Size Cutoff: 10.00 Microns
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0041	0.0039	0.0040	0.0039	0.0303	-----	-----	-----	0.0205	0.0044
ECARBON:	-----	-----	-----	-----	-----	0.0667	0.0136	0.0643	-----	0.0039
OCARBON:	-----	-----	-----	-----	-----	0.0188	0.0195	0.0316	-----	0.0020
SO4:	0.0002	0.0004	0.0004	0.0004	0.0018	0.0002	0.0002	0.0009	0.0001	0.0004
Total Exhaust PM:	0.0043	0.0043	0.0045	0.0044	0.0322	0.0856	0.0334	0.0969	0.0206	0.0107
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0248	0.0249	0.0250	0.0249	0.0534	0.1062	0.0539	0.1361	0.0371	0.0323
SO2:	0.0068	0.0088	0.0115	0.0096	0.0165	0.0029	0.0046	0.0131	0.0033	0.0086
NH3:	0.1017	0.1017	0.1013	0.1016	0.0451	0.0068	0.0068	0.0270	0.0113	0.0947

* #
* St & Cnty: 51059 MY: 2010 Speed: 50.0 Month: 07 1
* File 1, Run 1, Scenario 6.
* #

Calendar Year: 2010
Month: July
Gasoline Fuel Sulfur Content: 30. ppm
Diesel Fuel Sulfur Content: 15. ppm
Particle Size Cutoff: 10.00 Microns
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0041	0.0039	0.0040	0.0039	0.0303	-----	-----	-----	0.0205	0.0044
ECARBON:	-----	-----	-----	-----	-----	0.0667	0.0136	0.0643	-----	0.0039
OCARBON:	-----	-----	-----	-----	-----	0.0188	0.0195	0.0316	-----	0.0020

2015 Annual MOBILE6.2 Input File

```
MOBILE6 INPUT FILE :
> HEADER: State - VA / County - Fairfax   Revised M0251059.INput file
> For 2015 Annual MOBILE factors, using Eval Month 1 and temps 43 and 66.

POLLUTANTS           : HC CO NOx
PARTICULATES         :
REPORT FILE          : FAIR15AN.TXT
DATABASE OUTPUT      :
WITH FIELDNAMES      :
DAILY OUTPUT         :
AGGREGATED OUTPUT    :
SPREADSHEET          : Fair15AN.TAB  REPLACE

RUN DATA            :
>COMMENTS
>51 059

EXPRESS HC AS VOC   :
* EXPAND EVAPORATIVE :
* EXPAND EXHAUST     :

NO REFUELING        :
WE DA TRI LEN DI    : WeekTLD2.WDT
FUEL PROGRAM         : 2 S
94+ LDG IMP         : NLEVNE.D

* Registration Distribution      - kept 2002 Reg Data, 2015 not available
REG DIST                   : R02_FRFX.RDT

* Anti-Tampering Program
ANTI-TAMP PROG             :
89 68 50 22222 21111111 1 12 098. 22112222

* Inspection and Maintenance (I/M) Programs
I/M PROGRAM                : 1 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS           : 1 1968 1980
I/M VEHICLES              : 1 22222 21111111 1
I/M STRINGENCY            : 1 35
I/M COMPLIANCE            : 1 98.0
I/M WAIVER RATES         : 1 2.0 2.0

> Exhaust I/M - ASM final program #2
I/M PROGRAM                : 2 1983 2050 2 TRC ASM 2525/5015 PHASE-IN
I/M MODEL YEARS           : 2 1981 2050
I/M VEHICLES              : 2 22222 11111111 1
I/M STRINGENCY            : 2 35
I/M COMPLIANCE            : 2 98.0
I/M WAIVER RATES         : 2 2.0 2.0
I/M EFFECTIVENESS        : 0.94 0.94 0.94

> Exhaust I/M - IDLE test program #3
I/M PROGRAM                : 3 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS           : 3 1981 2050
I/M VEHICLES              : 3 11111 21111111 1
I/M STRINGENCY            : 3 35
I/M COMPLIANCE            : 3 98.0
I/M WAIVER RATES         : 3 2.0 2.0

> Evap I/M - Gas Cap test program #4
I/M PROGRAM                : 4 1998 2050 2 TRC GC
I/M MODEL YEARS           : 4 1973 2050
I/M VEHICLES              : 4 22222 21111111 1
I/M COMPLIANCE            : 4 98.0
I/M WAIVER RATES         : 4 2.0 2.0
```

* Diesel Sales Fractions

DIESEL FRACTIONS :

0.0018	0.0018	0.0022	0.0028	0.0022	0.0013	0.0016	0.0015	0.0005	0.0012
0.0013	0.0029	0.0015	0.0011	0.0007	0.0114	0.0089	0.0573	0.0842	0.1384
0.1989	0.1766	0.1464	0.0780	0.0103					
0.0128	0.0206	0.0218	0.0213	0.0197	0.0172	0.0099	0.0126	0.0184	0.0093
0.0110	0.0112	0.0165	0.0424	0.0141	0.0460	0.0312	0.0441	0.0609	0.0619
0.1032	0.0866	0.0529	0.0337	0.0108					
0.0128	0.0206	0.0218	0.0213	0.0197	0.0172	0.0099	0.0126	0.0184	0.0093
0.0110	0.0112	0.0165	0.0424	0.0141	0.0460	0.0312	0.0441	0.0609	0.0619
0.1032	0.0866	0.0529	0.0337	0.0108					
0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0115	0.0111	0.0145
0.0115	0.0129	0.0096	0.0083	0.0072	0.0082	0.0124	0.0135	0.0169	0.0209
0.0256	0.0013	0.0006	0.0011	0.0001					
0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0115	0.0111	0.0145
0.0115	0.0129	0.0096	0.0083	0.0072	0.0082	0.0124	0.0135	0.0169	0.0209
0.0256	0.0013	0.0006	0.0011	0.0001					
0.1998	0.1998	0.1998	0.1998	0.1998	0.1998	0.1998	0.2578	0.2515	0.3263
0.2784	0.2963	0.2384	0.2058	0.1756	0.1958	0.2726	0.2743	0.3004	0.2918
0.2859	0.0138	0.0000	0.0000	0.0000					
0.6774	0.6774	0.6774	0.6774	0.6774	0.6774	0.6774	0.7715	0.7910	0.8105
0.8068	0.8280	0.8477	0.7940	0.7488	0.7789	0.7842	0.6145	0.5139	0.5032
0.4277	0.0079	0.0000	0.0000	0.0001					
0.8606	0.8606	0.8606	0.8606	0.8606	0.8606	0.8606	0.8473	0.8048	0.8331
0.7901	0.7316	0.7275	0.7158	0.5647	0.3178	0.2207	0.1968	0.1570	0.0738
0.0341	0.0414	0.0003	0.0000	0.0000					
0.4647	0.4647	0.4647	0.4647	0.4647	0.4647	0.4647	0.4384	0.3670	0.4125
0.3462	0.2771	0.2730	0.2616	0.1543	0.0615	0.0383	0.0333	0.0255	0.0111
0.0049	0.0060	0.0000	0.0000	0.0000					
0.6300	0.6300	0.6300	0.6300	0.6300	0.6300	0.6300	0.6078	0.5246	0.5767
0.5289	0.5788	0.5617	0.4537	0.4216	0.4734	0.4705	0.4525	0.4310	0.3569
0.3690	0.4413	0.3094	0.1679	0.1390					
0.8563	0.8563	0.8563	0.8563	0.8563	0.8563	0.8563	0.8443	0.7943	0.8266
0.7972	0.8279	0.8177	0.7440	0.7184	0.7588	0.7567	0.7431	0.7261	0.6602
0.6717	0.7344	0.6107	0.4140	0.3610					
0.9992	0.9992	0.9992	0.9992	0.9992	0.9992	0.9992	0.9989	0.9987	0.9989
0.9977	0.9984	0.9982	0.9979	0.9969	0.9978	0.9980	0.9979	0.9976	0.9969
0.9978	0.9982	0.9974	0.9965	0.9964					
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000					
0.9585	0.9585	0.9585	0.9585	0.9585	0.9585	0.9585	0.8857	0.8525	0.8795
0.9900	0.9105	0.8760	0.7710	0.7502	0.7345	0.6733	0.5155	0.3845	0.3238
0.3260	0.2639	0.0594	0.0460	0.0291					

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 2.5 Month: 01 1
 >FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
 PMDDR2.CSV
 PARTICLE SIZE : 10.0
 DIESEL SULFUR : 15.0
 CALENDAR YEAR : 2015
 EVALUATION MONTH : 1
 MIN/MAX TEMPERATURE: 42.6 65.6
 ALTITUDE : 1
 AVERAGE SPEED : 2.50 Arterial
 SOAK DISTRIBUTION : SOAKZERO.SK
 FUEL RVP : 7.80

VMT FRACTIONS :
 0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
 0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 10.0 Month: 01 1
 >FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 10

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 10.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 15.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 15
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 15.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 20.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 20
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 20.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 25.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 25
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1

AVERAGE SPEED : 25.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 30.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 30
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 30.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 35.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 35
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 35.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 40.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 40
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 40.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021

0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 45.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 45
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 45.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 50.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 50
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 50.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 50.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 115
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 50.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 55.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 120
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0

DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 55.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 60.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 125
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 60.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 65.0 Month: 01 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 130
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
MIN/MAX TEMPERATURE: 42.6 65.6
ALTITUDE : 1
AVERAGE SPEED : 65.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

END OF RUN :

MOBILE6.2 OUTPUT FILE for 2015 ANNUAL Year

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: FAIR15AN.IN (file 1, run 1). *
*****
```

*COMMENTS

*51 059

M603 Comment:

User has disabled the calculation of REFUELING emissions.

* Reading non-default WEEKDAY RUNNING LOSS HOURLY TRIP LENGTH FRACTIONS
* from the following external data file: WEEKTLD2.WDT

M616 Comment:

User has supplied post-1999 sulfur levels.

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D

* Reading Registration Distributions from the following external
* data file: R02_FRFX.RDT

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

* Exhaust I/M - ASM final program #2

* Reading ASM I/M Test Credits from ASMDATA.D

* Exhaust I/M - IDLE test program #3

* Evap I/M - Gas Cap test program #4

M614 Comment:

 User supplied diesel sale fractions.

* #####

* St & Cnty: 51059 MY: 2015 Speed: 2.5 Month: 01 1

* File 1, Run 1, Scenario 1.

* #####

*FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 1

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

M583 Warning:

 The user supplied arterial average speed of 2.5
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

* Reading start SOAK distribution from the following external

* data file: SOAKZERO.SK

M615 Comment:

 User supplied VMT mix.

M112 Warning:

 Wintertime Reformulated Gasoline Rules Apply

*** I/M credits for Tech1&2 vehicles were read from the following external

data file: TECH12.D

M 48 Warning:

 there are no sales for vehicle class HDGV8b

* Reading Ammonia (NH3) Basic Emission Rates
 * from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
 * from the external data file PMNH3SDR.D

LEV phase-in data read from file NLEVNE.D
 Calendar Year: 2015
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 42.6 (F)
 Maximum Temperature: 65.6 (F)
 Absolute Humidity: 75. grains/lb
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite VOC :	2.147	1.707	2.236	1.856	2.550	0.676	0.219	0.838	8.99	1.963
Composite CO :	12.51	11.53	13.15	11.98	31.35	3.078	0.986	2.322	88.25	12.349
Composite NOX :	0.389	0.453	0.677	0.516	0.632	1.282	0.227	3.369	0.79	0.625

* #
 * St & Cnty: 51059 MY: 2015 Speed: 10.0 Month: 01 1
 * File 1, Run 1, Scenario 2.
 * #
 *FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 10

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

M583 Warning:
 The user supplied arterial average speed of 10.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

* Reading start SOAK distribution from the following external
 * data file: SOAKZERO.SK

M615 Comment:
 User supplied VMT mix.

M112 Warning:
 Wintertime Reformulated Gasoline Rules Apply

M 48 Warning:
 there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
 Calendar Year: 2015
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 42.6 (F)
 Maximum Temperature: 65.6 (F)
 Absolute Humidity: 75. grains/lb
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.407	0.349	0.495	0.390	0.698	0.466	0.151	0.578	3.31	0.427
Composite CO :	4.29	4.15	4.72	4.31	16.67	1.732	0.555	1.307	24.42	4.461
Composite NOX :	0.270	0.314	0.471	0.358	0.681	0.956	0.169	2.520	0.64	0.450

MOBILE6.2 OUTPUT FILE for PM for 2015 ANNUAL Year

 * MOBILE6.2.03 (24-Sep-2003) *
 * Input file: FAIR15AN.IN (file 1, run 1). *

* #####
 * St & Cnty: 51059 MY: 2015 Speed: 2.5 Month: 01 1
 * File 1, Run 1, Scenario 1.
 * #####

Calendar Year: 2015
 Month: Jan.
 Gasoline Fuel Sulfur Content: 30. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0038	0.0036	0.0037	0.0036	0.0166	-----	-----	-----	0.0205	0.0038
ECARBON:	-----	-----	-----	-----	-----	0.0503	0.0073	0.0293	-----	0.0018
OCARBON:	-----	-----	-----	-----	-----	0.0142	0.0105	0.0143	-----	0.0009
SO4:	0.0005	0.0006	0.0006	0.0006	0.0013	0.0002	0.0002	0.0009	0.0002	0.0006
Total Exhaust PM:	0.0043	0.0042	0.0043	0.0042	0.0180	0.0647	0.0180	0.0445	0.0207	0.0072
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0248	0.0248	0.0248	0.0248	0.0392	0.0852	0.0385	0.0837	0.0372	0.0288
SO2:	0.0067	0.0088	0.0115	0.0095	0.0167	0.0029	0.0046	0.0131	0.0033	0.0085
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0947

* #####
 * St & Cnty: 51059 MY: 2015 Speed: 10.0 Month: 01 1
 * File 1, Run 1, Scenario 2.
 * #####

Calendar Year: 2015
 Month: Jan.
 Gasoline Fuel Sulfur Content: 30. ppm

Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0038	0.0036	0.0037	0.0036	0.0166	-----	-----	-----	0.0205	0.0038
ECARBON:	-----	-----	-----	-----	-----	0.0503	0.0073	0.0293	-----	0.0018
OCARBON:	-----	-----	-----	-----	-----	0.0142	0.0105	0.0143	-----	0.0009
SO4:	0.0005	0.0006	0.0006	0.0006	0.0013	0.0002	0.0002	0.0009	0.0002	0.0006
Total Exhaust PM:	0.0043	0.0042	0.0043	0.0042	0.0180	0.0647	0.0180	0.0445	0.0207	0.0072
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0248	0.0248	0.0248	0.0248	0.0392	0.0852	0.0385	0.0837	0.0372	0.0288
SO2:	0.0067	0.0088	0.0115	0.0095	0.0167	0.0029	0.0046	0.0131	0.0033	0.0085
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0947

* #
 * St & Cnty: 51059 MY: 2015 Speed: 15.0 Month: 01 1
 * File 1, Run 1, Scenario 3.
 * #

Calendar Year: 2015
 Month: Jan.
 Gasoline Fuel Sulfur Content: 30. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0038	0.0036	0.0037	0.0036	0.0166	-----	-----	-----	0.0205	0.0038
ECARBON:	-----	-----	-----	-----	-----	0.0503	0.0073	0.0293	-----	0.0018
OCARBON:	-----	-----	-----	-----	-----	0.0142	0.0105	0.0143	-----	0.0009
SO4:	0.0005	0.0006	0.0006	0.0006	0.0013	0.0002	0.0002	0.0009	0.0002	0.0006
Total Exhaust PM:	0.0043	0.0042	0.0043	0.0042	0.0180	0.0647	0.0180	0.0445	0.0207	0.0072

Brake: 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125 0.0125
Tire: 0.0080 0.0080 0.0080 0.0080 0.0087 0.0080 0.0080 0.0266 0.0040 0.0091
Total PM: 0.0248 0.0248 0.0248 0.0248 0.0392 0.0852 0.0385 0.0837 0.0372 0.0288
SO2: 0.0067 0.0088 0.0115 0.0095 0.0167 0.0029 0.0046 0.0131 0.0033 0.0085
NH3: 0.1017 0.1017 0.1017 0.1017 0.0451 0.0068 0.0068 0.0270 0.0113 0.0947

* #
* St & Cnty: 51059 MY: 2015 Speed: 20.0 Month: 01 1
* File 1, Run 1, Scenario 4.
* #

Calendar Year: 2015
Month: Jan.
Gasoline Fuel Sulfur Content: 30. ppm
Diesel Fuel Sulfur Content: 15. ppm
Particle Size Cutoff: 10.00 Microns
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4532	0.3247	0.1268		0.0220	0.0017	0.0092	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):

Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0038	0.0036	0.0037	0.0036	0.0166	-----	-----	-----	0.0205	0.0038
ECARBON:	-----	-----	-----	-----	-----	0.0503	0.0073	0.0293	-----	0.0018
OCARBON:	-----	-----	-----	-----	-----	0.0142	0.0105	0.0143	-----	0.0009
SO4:	0.0005	0.0006	0.0006	0.0006	0.0013	0.0002	0.0002	0.0009	0.0002	0.0006
Total Exhaust PM:	0.0043	0.0042	0.0043	0.0042	0.0180	0.0647	0.0180	0.0445	0.0207	0.0072
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0248	0.0248	0.0248	0.0248	0.0392	0.0852	0.0385	0.0837	0.0372	0.0288
SO2:	0.0067	0.0088	0.0115	0.0095	0.0167	0.0029	0.0046	0.0131	0.0033	0.0085
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0947

2015 Ozone MOBILE6.2 Input File

```
MOBILE6 INPUT FILE :
> HEADER: State - VA / County - Fairfax Revised M0251059.INput file
> For 2015 Ozone MOBILE factors, using Eval Month 7 and temps 68.5 and 95.0

POLLUTANTS          : HC CO NOx
PARTICULATES        :
REPORT FILE          : FAIR1503.TXT
DATABASE OUTPUT      :
WITH FIELDNAMES      :
DAILY OUTPUT         :
AGGREGATED OUTPUT    :
SPREADSHEET         : Fair1503.TAB REPLACE

RUN DATA           :
>COMMENTS
>51 059

EXPRESS HC AS VOC   :
* EXPAND EVAPORATIVE :
* EXPAND EXHAUST     :

NO REFUELING        :
WE DA TRI LEN DI    : WeekTLD2.WDT
FUEL PROGRAM         : 2 S
94+ LDG IMP         : NLEVNE.D

* Registration Distribution - kept 2002 Reg Data, 2010 not available
REG DIST            : R02_FRFX.RDT

* Anti-Tampering Program
ANTI-TAMP PROG      :
89 68 50 22222 21111111 1 12 098. 22112222

* Inspection and Maintenance (I/M) Programs
I/M PROGRAM         : 1 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS     : 1 1968 1980
I/M VEHICLES        : 1 22222 21111111 1
I/M STRINGENCY      : 1 35
I/M COMPLIANCE      : 1 98.0
I/M WAIVER RATES    : 1 2.0 2.0

> Exhaust I/M - ASM final program #2
I/M PROGRAM         : 2 1983 2050 2 TRC ASM 2525/5015 PHASE-IN
I/M MODEL YEARS     : 2 1981 2050
I/M VEHICLES        : 2 22222 11111111 1
I/M STRINGENCY      : 2 35
I/M COMPLIANCE      : 2 98.0
I/M WAIVER RATES    : 2 2.0 2.0
I/M EFFECTIVENESS   : 0.94 0.94 0.94

> Exhaust I/M - IDLE test program #3
I/M PROGRAM         : 3 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS     : 3 1981 2050
I/M VEHICLES        : 3 11111 21111111 1
I/M STRINGENCY      : 3 35
I/M COMPLIANCE      : 3 98.0
I/M WAIVER RATES    : 3 2.0 2.0

> Evap I/M - Gas Cap test program #4
I/M PROGRAM         : 4 1998 2050 2 TRC GC
I/M MODEL YEARS     : 4 1973 2050
I/M VEHICLES        : 4 22222 21111111 1
I/M COMPLIANCE      : 4 98.0
I/M WAIVER RATES    : 4 2.0 2.0
```

* Diesel Sales Fractions

DIESEL FRACTIONS :

0.0018	0.0018	0.0022	0.0028	0.0022	0.0013	0.0016	0.0015	0.0005	0.0012
0.0013	0.0029	0.0015	0.0011	0.0007	0.0114	0.0089	0.0573	0.0842	0.1384
0.1989	0.1766	0.1464	0.0780	0.0103					
0.0128	0.0206	0.0218	0.0213	0.0197	0.0172	0.0099	0.0126	0.0184	0.0093
0.0110	0.0112	0.0165	0.0424	0.0141	0.0460	0.0312	0.0441	0.0609	0.0619
0.1032	0.0866	0.0529	0.0337	0.0108					
0.0128	0.0206	0.0218	0.0213	0.0197	0.0172	0.0099	0.0126	0.0184	0.0093
0.0110	0.0112	0.0165	0.0424	0.0141	0.0460	0.0312	0.0441	0.0609	0.0619
0.1032	0.0866	0.0529	0.0337	0.0108					
0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0115	0.0111	0.0145
0.0115	0.0129	0.0096	0.0083	0.0072	0.0082	0.0124	0.0135	0.0169	0.0209
0.0256	0.0013	0.0006	0.0011	0.0001					
0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0115	0.0111	0.0145
0.0115	0.0129	0.0096	0.0083	0.0072	0.0082	0.0124	0.0135	0.0169	0.0209
0.0256	0.0013	0.0006	0.0011	0.0001					
0.1998	0.1998	0.1998	0.1998	0.1998	0.1998	0.1998	0.2578	0.2515	0.3263
0.2784	0.2963	0.2384	0.2058	0.1756	0.1958	0.2726	0.2743	0.3004	0.2918
0.2859	0.0138	0.0000	0.0000	0.0000					
0.6774	0.6774	0.6774	0.6774	0.6774	0.6774	0.6774	0.7715	0.7910	0.8105
0.8068	0.8280	0.8477	0.7940	0.7488	0.7789	0.7842	0.6145	0.5139	0.5032
0.4277	0.0079	0.0000	0.0000	0.0001					
0.8606	0.8606	0.8606	0.8606	0.8606	0.8606	0.8606	0.8473	0.8048	0.8331
0.7901	0.7316	0.7275	0.7158	0.5647	0.3178	0.2207	0.1968	0.1570	0.0738
0.0341	0.0414	0.0003	0.0000	0.0000					
0.4647	0.4647	0.4647	0.4647	0.4647	0.4647	0.4647	0.4384	0.3670	0.4125
0.3462	0.2771	0.2730	0.2616	0.1543	0.0615	0.0383	0.0333	0.0255	0.0111
0.0049	0.0060	0.0000	0.0000	0.0000					
0.6300	0.6300	0.6300	0.6300	0.6300	0.6300	0.6300	0.6078	0.5246	0.5767
0.5289	0.5788	0.5617	0.4537	0.4216	0.4734	0.4705	0.4525	0.4310	0.3569
0.3690	0.4413	0.3094	0.1679	0.1390					
0.8563	0.8563	0.8563	0.8563	0.8563	0.8563	0.8563	0.8443	0.7943	0.8266
0.7972	0.8279	0.8177	0.7440	0.7184	0.7588	0.7567	0.7431	0.7261	0.6602
0.6717	0.7344	0.6107	0.4140	0.3610					
0.9992	0.9992	0.9992	0.9992	0.9992	0.9992	0.9992	0.9989	0.9987	0.9989
0.9977	0.9984	0.9982	0.9979	0.9969	0.9978	0.9980	0.9979	0.9976	0.9969
0.9978	0.9982	0.9974	0.9965	0.9964					
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000					
0.9585	0.9585	0.9585	0.9585	0.9585	0.9585	0.9585	0.8857	0.8525	0.8795
0.9900	0.9105	0.8760	0.7710	0.7502	0.7345	0.6733	0.5155	0.3845	0.3238
0.3260	0.2639	0.0594	0.0460	0.0291					

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 2.5 Month: 07 1
 >FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
 PMDDR2.CSV
 PARTICLE SIZE : 10.0
 DIESEL SULFUR : 15.0
 CALENDAR YEAR : 2015
 EVALUATION MONTH : 7
 MIN/MAX TEMPERATURE: 68.5 95.0
 ALTITUDE : 1
 AVERAGE SPEED : 2.50 Arterial
 SOAK DISTRIBUTION : SOAKZERO.SK
 FUEL RVP : 7.80

VMT FRACTIONS :
 0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
 0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 10.0 Month: 07 1
 >FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 10

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 10.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 15.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 15
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 15.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 30.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 30
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 30.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 40.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 40
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 40.0 Arterial
SOAK DISTRIBUTION : SOAKZERO.SK

FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 50.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 115
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 50.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

SCENARIO RECORD : St & Cnty: 51059 MY: 2015 Speed: 55.0 Month: 07 1
>FV FILE: .FV OPMODE: Stable FACILITY: Non-Ramp SCENARIO: 120
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV
PMDDR2.CSV
PARTICLE SIZE : 10.0
DIESEL SULFUR : 15.0
CALENDAR YEAR : 2015
EVALUATION MONTH : 7
MIN/MAX TEMPERATURE: 68.5 95.0
ALTITUDE : 1
AVERAGE SPEED : 55.0 Non-Ramp
SOAK DISTRIBUTION : SOAKZERO.SK
FUEL RVP : 7.80

VMT FRACTIONS :
0.4549 0.0767 0.2554 0.0881 0.0406 0.0240 0.0024 0.0021
0.0016 0.0061 0.0072 0.0080 0.0280 0.0000 0.0000 0.0049

END OF RUN :

MOBILE6.2 OUTPUT FILE for 2015 Ozone Year

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: FAIR1503.IN (file 1, run 1). *
*****
```

*COMMENTS

*51 059

M603 Comment:

User has disabled the calculation of REFUELING emissions.

* Reading non-default WEEKDAY RUNNING LOSS HOURLY TRIP LENGTH FRACTIONS
* from the following external data file: WEEKTLD2.WDT

M616 Comment:

User has supplied post-1999 sulfur levels.

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D

* Reading Registration Distributions from the following external
* data file: R02_FRFX.RDT

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

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1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

* Reading Ammonia (NH3) Basic Emission Rates
* from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
* from the external data file PMNH3SDR.D

LEV phase-in data read from file NLEVNE.D
Calendar Year: 2015
Month: July
Altitude: Low
Minimum Temperature: 68.5 (F)
Maximum Temperature: 95.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDRV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	2.102	1.650	2.119	1.782	2.383	0.667	0.218	0.831	9.30	1.907
Composite CO :	11.75	10.26	10.95	10.45	28.43	3.058	0.983	2.218	112.17	11.366
Composite NOX :	0.530	0.478	0.683	0.536	0.585	1.256	0.221	3.166	0.64	0.684

* #####
* St & Cnty: 51059 MY: 2015 Speed: 10.0 Month: 07 1
* File 1, Run 1, Scenario 2.
* #####
* FV FILE: .FV OPMODE: Stable FACILITY: Arterial SCENARIO: 10

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

M583 Warning:

The user supplied arterial average speed of 10.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

* Reading start SOAK distribution from the following external

* data file: SOAKZERO.SK

M615 Comment:

User supplied VMT mix.

M 48 Warning:

there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D

Calendar Year: 2015
Month: July
Altitude: Low
Minimum Temperature: 68.5 (F)
Maximum Temperature: 95.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: Yes

Table with 11 columns: Vehicle Type, LDGV, LDGT12, LDGT34, LDGT (All), HDGV, LDDV, LDDT, HDDV, MC, All Veh. Row 1: VMT Distribution: 0.4533, 0.3250, 0.1268, 0.0220, 0.0016, 0.0090, 0.0574, 0.0049, 1.0000

Composite Emission Factors (g/mi):

Table with 11 columns: Composite VOC, Composite CO, Composite NOX, and 8 other columns. Row 1: Composite VOC: 0.413, 0.353, 0.481, 0.389, 0.653, 0.460, 0.151, 0.574, 3.54, 0.429

MOBILE6.2 OUTPUT FILE for PM for 2015 Ozone Year

 * MOBILE6.2.03 (24-Sep-2003) *
 * Input file: FAIR1503.IN (file 1, run 1). *

* #####
 * St & Cnty: 51059 MY: 2015 Speed: 2.5 Month: 07 1
 * File 1, Run 1, Scenario 1.
 * #####

Calendar Year: 2015
 Month: July
 Gasoline Fuel Sulfur Content: 30. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0038	0.0036	0.0037	0.0036	0.0161	-----	-----	-----	0.0205	0.0038
ECARBON:	-----	-----	-----	-----	-----	0.0492	0.0070	0.0281	-----	0.0018
OCARBON:	-----	-----	-----	-----	-----	0.0139	0.0101	0.0137	-----	0.0009
SO4:	0.0005	0.0006	0.0006	0.0006	0.0013	0.0002	0.0002	0.0009	0.0002	0.0006
Total Exhaust PM:	0.0043	0.0042	0.0043	0.0042	0.0174	0.0632	0.0173	0.0428	0.0207	0.0070
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0248	0.0248	0.0248	0.0248	0.0387	0.0837	0.0379	0.0820	0.0372	0.0287
SO2:	0.0067	0.0088	0.0115	0.0095	0.0167	0.0029	0.0046	0.0131	0.0033	0.0085
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0947

* #####
 * St & Cnty: 51059 MY: 2015 Speed: 10.0 Month: 07 1
 * File 1, Run 1, Scenario 2.
 * #####

Calendar Year: 2015
 Month: July
 Gasoline Fuel Sulfur Content: 30. ppm

Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	Hdgv	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0038	0.0036	0.0037	0.0036	0.0161	-----	-----	-----	0.0205	0.0038
ECARBON:	-----	-----	-----	-----	-----	0.0492	0.0070	0.0281	-----	0.0018
OCARBON:	-----	-----	-----	-----	-----	0.0139	0.0101	0.0137	-----	0.0009
SO4:	0.0005	0.0006	0.0006	0.0006	0.0013	0.0002	0.0002	0.0009	0.0002	0.0006
Total Exhaust PM:	0.0043	0.0042	0.0043	0.0042	0.0174	0.0632	0.0173	0.0428	0.0207	0.0070
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0248	0.0248	0.0248	0.0248	0.0387	0.0837	0.0379	0.0820	0.0372	0.0287
SO2:	0.0067	0.0088	0.0115	0.0095	0.0167	0.0029	0.0046	0.0131	0.0033	0.0085
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0947

* #
 * St & Cnty: 51059 MY: 2015 Speed: 15.0 Month: 07 1
 * File 1, Run 1, Scenario 3.
 * #

Calendar Year: 2015
 Month: July
 Gasoline Fuel Sulfur Content: 30. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	Hdgv	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):										
Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0038	0.0036	0.0037	0.0036	0.0161	-----	-----	-----	0.0205	0.0038
ECARBON:	-----	-----	-----	-----	-----	0.0492	0.0070	0.0281	-----	0.0018
OCARBON:	-----	-----	-----	-----	-----	0.0139	0.0101	0.0137	-----	0.0009
SO4:	0.0005	0.0006	0.0006	0.0006	0.0013	0.0002	0.0002	0.0009	0.0002	0.0006
Total Exhaust PM:	0.0043	0.0042	0.0043	0.0042	0.0174	0.0632	0.0173	0.0428	0.0207	0.0070

Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091	
Total PM:	0.0248	0.0248	0.0248	0.0248	0.0387	0.0837	0.0379	0.0820	0.0372	0.0287	
SO2:	0.0067	0.0088	0.0115	0.0095	0.0167	0.0029	0.0046	0.0131	0.0033	0.0085	
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0947	

* #####
 * St & Cnty: 51059 MY: 2015 Speed: 30.0 Month: 07 1
 * File 1, Run 1, Scenario 4.
 * #####

Calendar Year: 2015
 Month: July
 Gasoline Fuel Sulfur Content: 30. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 10.00 Microns
 Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4533	0.3250	0.1268		0.0220	0.0016	0.0090	0.0574	0.0049	1.0000

Composite Emission Factors (g/mi):

Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----	-----	-----	0.0000	0.0000
GASPM:	0.0039	0.0037	0.0038	0.0037	0.0157	-----	-----	-----	0.0205	0.0039
ECARBON:	-----	-----	-----	-----	-----	0.0492	0.0070	0.0281	-----	0.0018
OCARBON:	-----	-----	-----	-----	-----	0.0139	0.0101	0.0137	-----	0.0009
SO4:	0.0003	0.0005	0.0005	0.0005	0.0018	0.0002	0.0002	0.0009	0.0001	0.0004
Total Exhaust PM:	0.0042	0.0042	0.0043	0.0042	0.0175	0.0632	0.0173	0.0428	0.0206	0.0070
Brake:	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
Tire:	0.0080	0.0080	0.0080	0.0080	0.0087	0.0080	0.0080	0.0266	0.0040	0.0091
Total PM:	0.0248	0.0248	0.0248	0.0248	0.0387	0.0837	0.0379	0.0820	0.0371	0.0286
SO2:	0.0068	0.0088	0.0115	0.0096	0.0165	0.0029	0.0046	0.0131	0.0033	0.0086
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0947
