3.0 On-Road Mobile Source Emissions

The purpose of this section is to document the development of the 2002 base year on-road mobile source emission inventory for the Hampton Roads ozone nonattainment area. A mobile source emission inventory was compiled for an average ozone-season weekday and the entire period of calendar year 2002. The mobile source inventory includes emissions of reactive volatile organic compounds (VOC), oxides of nitrogen (NO_x), and carbon monoxide (CO) produced by the operation of on-road motor vehicles that are registered to use public roadways and utilize gasoline, diesel, or compressed natural gas fuels. This covers all classes of vehicles from motorcycles to heavy-duty tractor trailers operating on roads ranging from rural access roads to interstate highways. Table 3-1 shows each of the 28 vehicle classes that were modeled.

Table 3-1

Mobile Source Vehicle Types

VTYPE	VEHICLE	VEHICLE DESCRIPTION
1	LDGV	Light-Duty Gasoline Vehicles (Passenger Cars)
2	LDGT1	Light-Duty Gasoline Trucks 1 (0-6000 lbs GVWR, 0-3750 lbs LVW)
3	LDGT2	Light-Duty Gasoline Trucks 2 (0-6000 lbs. GVWR, 3751-5750 lbs. LVW)
4	LDGT3	Light-Duty Gasoline Trucks 3 (6001-8500 lbs GVWR, 0-3750 lbs LVW)
5	LDGT4	Light-Duty Gasoline Trucks 4 (6001-8500 lbs GVWR, 3751-5750 lbs LVW)
6	HDGV2b	Class 2b Heavy-Duty Gasoline Vehicles (8501-10,000 lbs GVWR)
7	HDGV3	Class 3 Heavy-Duty Gasoline Vehicles (10,001-14,000 lbs GVWR)
8	HDGV4	Class 4 Heavy-Duty Gasoline Vehicles (14,001-16,000 lbs GVWR)
9	HDGV5	Class 5 Heavy-Duty Gasoline Vehicles (16,001-19,500 lbs GVWR)
10	HDGV6	Class 6 Heavy-Duty Gasoline Vehicles (19,501-26,000 lbs GVWR)
11	HDGV7	Class 7 Heavy-Duty Gasoline Vehicles (26,001-33,000 lbs GVWR)
12	HDGV8a	Class 8a Heavy-Duty Gasoline Vehicles (33,001-60,000 lbs GVWR)
13	HDGV8b	Class 8b Heavy-Duty Gasoline Vehicles (>60,000 lbs GVWR)
14	LDDV	Light-Duty Diesel Vehicles (Passenger Cars)
15	LDDT12	Light-Duty Diesel Trucks 1 and 2 (0-6000 lbs GVWR)
16	HDDV2b	Class 2b Heavy-Duty Diesel Vehicles (8501-10,000 lbs GVWR)
17	HDDV3	Class 3 Heavy-Duty Diesel Vehicles (10,001-14,000 lbs GVWR)
18	HDDV4	Class 4 Heavy-Duty Diesel Vehicles (14,001-16,000 lbs GVWR)
19	HDDV5	Class 5 Heavy-Duty Diesel Vehicles (16,001-19,500 lbs GVWR)
20	HDDV6	Class 6 Heavy-Duty Diesel Vehicles (19,501-26,000 lbs GVWR)
21	HDDV7	Class 7 Heavy-Duty Diesel Vehicles (26,001-33,000 lbs GVWR)
22	HDDV8a	Class 8a Heavy-Duty Diesel Vehicles (33,001-60,000 lbs GVWR)
23	HDDV8b	Class 8b Heavy-Duty Diesel Vehicles (>60,000 lbs GVWR)
24	MC	Motorcycles (gasoline)
25	HDGB	Gasoline Buses (School, Transit, and Urban)
26	HDDBT	Diesel Transit and Urban Buses
27	HDDBS	Diesel School Buses
28	LDDT34	Light-Duty Diesel Trucks 3 and 4 (6001-8500 lbs GVWR)

In general, the process of estimating on-road mobile source emissions consists of two components: vehicular-related activity level and an average rate of pollutant produced as a result of a particular level of activity. The emission of ozone precursor pollutants from motor vehicles occurs in two main areas; the exhaust system and the evaporative system. The activity data pertinent for mobile emission development is vehicle miles traveled (VMT), which is used to determine exhaust and evaporative emissions from vehicle operation. A pollutant emission rate associated with a particular level of activity was

estimated using the latest version of the EPA mobile source emission factor model, MOBILE 6.2. The MOBILE 6.2 model requires the input of motor vehicle and traffic related information such as average road speed, age and distribution of registered vehicles, the mix of vehicle types that make up the traffic activity (VMT mix), and mobile control programs such as inspection and maintenance programs and anti-tampering programs. These inputs can be expressed specifically for a road type or a jurisdiction. Other factors that influence the emission rate are ambient temperatures and the Reid vapor pressure (RVP) of the gasoline, which should accurately represent the travel scenario and the ambient condition modeled. Table 3-2 shows each of the road types modeled.

Table 3-2

Mobile Source Road Types

ROADTYPE	ROADSCC	ROADFHWA
Rural Interstate	110	1
Rural Other Principal Arterial	130	2
Rural Minor Arterial	150	6
Rural Major Collector	170	7
Rural Minor Collector	190	8
Rural Local	210	9
Urban Interstate	230	11
Urban Other Freeways and Expressways	250	12
Urban Other Principal Arterial	270	14
Urban Minor Arterial	290	16
Urban Collector	310	17
Urban Local	330	19

The calculation used to develop the emission estimates presented in this section is provided below.

Equation 1:

$(AL \times EF/CF^1)/ CF^2$ = Emission Estimate (for VOC, NO_x, or CO)

AL: Activity Level = VMT (miles) expressed as a seasonal figure
EF: Emission Factor or emission rate expressed as grams/mile
CF^1: Conversion Factor for grams to pounds
CF^2: Conversion Factor for pounds to tons

This calculation allows for the derivation of an emission estimation expressed in units of tons. The same equation is used for estimating emissions of all three criteria pollutants and can be applied at the jurisdiction, road type, and vehicle class levels. Table 3-3 summarizes the 2002 ozone-season weekday mobile source emissions by jurisdiction. Table 3-4 summarizes the annual mobile source emissions by jurisdiction. Table 3-5 provides ozone-season weekday mobile source emissions by vehicle class. Table 3-6 provides annual mobile source emissions by vehicle class.

Table 3-3

2002 Ozone-Season Weekday Mobile Source Emissions By Jurisdiction

Jurisdiction	VOC (tpd)	NOx (tpd)	CO (tpd)
Chesapeake City	9.374	13.732	121.776
Gloucester County	2.318	3.412	28.810
Hampton City	8.332	10.371	99.625
Isle Of Wight County	2.674	3.361	29.209
James City County	2.378	4.061	34.027
Newport News City	8.150	10.615	98.523
Norfolk City	10.485	14.907	136.179
Poquoson City	0.302	0.269	2.831
Portsmouth City	3.656	4.294	42.213

Table 3-3			
2002 Ozone-Season Weekday Mobile Source Emissions By Jurisdiction			
Jurisdiction	**VOC (tpd)**	**NOx (tpd)**	**CO (tpd)**
Suffolk City	4.387	6.791	57.990
Virginia Beach City	11.719	16.914	150.134
Williamsburg City	0.402	0.500	4.662
York County	3.115	4.617	42.382
Total	**67.293**	**93.844**	**848.362**

Table 3-4			
2002 Annual Mobile Source Emissions By Jurisdiction			
Jurisdiction	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
Chesapeake City	3,303.6	4,441.3	47,574.8
Gloucester County	794.6	1,176.1	11,318.4
Hampton City	2,860.4	3,310.3	37,529.9
Isle Of Wight County	926.3	1,171.4	11,700.5
James City County	824.6	1,305.7	12,967.9
Newport News City	2,897.9	3,467.0	38,792.7
Norfolk City	3,627.7	4,755.6	51,996.1
Poquoson City	110.4	93.6	1,158.8
Portsmouth City	1,297.1	1,427.0	16,651.6
Suffolk City	1,573.0	2,300.9	22,989.4
Virginia Beach City	4,226.4	5,609.5	60,746.3
Williamsburg City	150.3	174.4	1,988.4
York County	1,088.3	1,507.2	16,338.7
Total	**23,680.6**	**30,740.0**	**331,753.6**

Table 3-5				
2002 Ozone-Season Weekday Mobile Source Emissions By Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (TPD)**	**NOX (TPD)**	**CO (TPD)**
Chesapeake City	MC	0.064	0.028	0.368
Chesapeake City	LDGV	4.747	4.303	57.794
Chesapeake City	LDGT4	0.488	0.446	6.468
Chesapeake City	LDGT3	1.042	0.801	13.946
Chesapeake City	LDGT2	2.156	2.387	31.731
Chesapeake City	LDGT1	0.634	0.599	9.392
Chesapeake City	LDDV	0.004	0.010	0.010
Chesapeake City	LDDT34	0.006	0.018	0.012
Chesapeake City	LDDT12	0.003	0.004	0.005
Chesapeake City	HDGV8b	0.000	0.000	0.000
Chesapeake City	HDGV8a	0.000	0.000	0.000
Chesapeake City	HDGV7	0.005	0.022	0.069
Chesapeake City	HDGV6	0.009	0.045	0.113
Chesapeake City	HDGV5	0.004	0.022	0.053
Chesapeake City	HDGV4	0.003	0.009	0.036
Chesapeake City	HDGV3	0.004	0.017	0.062
Chesapeake City	HDGV2b	0.075	0.462	0.965

Table 3-5				
2002 Ozone-Season Weekday Mobile Source Emissions By Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (TPD)**	**NOX (TPD)**	**CO (TPD)**
Chesapeake City	HDGB	0.003	0.008	0.059
Chesapeake City	HDDV8b	0.071	2.850	0.439
Chesapeake City	HDDV8a	0.017	0.698	0.096
Chesapeake City	HDDV7	0.015	0.372	0.053
Chesapeake City	HDDV6	0.008	0.203	0.028
Chesapeake City	HDDV5	0.001	0.026	0.004
Chesapeake City	HDDV4	0.002	0.054	0.010
Chesapeake City	HDDV3	0.002	0.052	0.010
Chesapeake City	HDDV2b	0.006	0.152	0.028
Chesapeake City	HDDBT	0.001	0.063	0.012
Chesapeake City	HDDBS	0.003	0.079	0.011
TOTAL for CHESAPEAKE CITY		**9.374**	**13.732**	**121.776**
Gloucester County	MC	0.012	0.005	0.065
Gloucester County	LDGV	1.084	0.827	12.664
Gloucester County	LDGT4	0.135	0.087	1.755
Gloucester County	LDGT3	0.290	0.163	3.799
Gloucester County	LDGT2	0.533	0.453	7.257
Gloucester County	LDGT1	0.158	0.120	2.176
Gloucester County	LDDV	0.001	0.002	0.002
Gloucester County	LDDT34	0.001	0.003	0.002
Gloucester County	LDDT12	0.001	0.001	0.002
Gloucester County	HDGV8b	0.000	0.000	0.000
Gloucester County	HDGV8a	0.000	0.000	0.000
Gloucester County	HDGV7	0.003	0.009	0.049
Gloucester County	HDGV6	0.005	0.017	0.073
Gloucester County	HDGV5	0.002	0.008	0.033
Gloucester County	HDGV4	0.002	0.004	0.027
Gloucester County	HDGV3	0.003	0.007	0.047
Gloucester County	HDGV2b	0.041	0.159	0.551
Gloucester County	HDGB	0.002	0.004	0.042
Gloucester County	HDDV8b	0.025	0.971	0.175
Gloucester County	HDDV8a	0.006	0.236	0.036
Gloucester County	HDDV7	0.005	0.127	0.019
Gloucester County	HDDV6	0.002	0.068	0.010
Gloucester County	HDDV5	0.000	0.008	0.001
Gloucester County	HDDV4	0.001	0.018	0.003
Gloucester County	HDDV3	0.001	0.018	0.003
Gloucester County	HDDV2b	0.002	0.052	0.009
Gloucester County	HDDBT	0.001	0.022	0.004
Gloucester County	HDDBS	0.001	0.024	0.004
TOTAL for GLOUCESTER COUNTY		**2.318**	**3.412**	**28.810**
Hampton City	MC	0.046	0.020	0.261

Table 3-5				
2002 Ozone-Season Weekday Mobile Source Emissions By Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (TPD)**	**NOX (TPD)**	**CO (TPD)**
Hampton City	LDGV	3.895	3.261	43.891
Hampton City	LDGT4	0.519	0.356	6.358
Hampton City	LDGT3	1.117	0.669	13.755
Hampton City	LDGT2	1.952	1.808	25.703
Hampton City	LDGT1	0.577	0.464	7.612
Hampton City	LDDV	0.004	0.009	0.009
Hampton City	LDDT34	0.005	0.012	0.009
Hampton City	LDDT12	0.004	0.005	0.007
Hampton City	HDGV8b	0.000	0.000	0.000
Hampton City	HDGV8a	0.000	0.000	0.000
Hampton City	HDGV7	0.006	0.019	0.083
Hampton City	HDGV6	0.010	0.037	0.125
Hampton City	HDGV5	0.005	0.017	0.058
Hampton City	HDGV4	0.004	0.008	0.046
Hampton City	HDGV3	0.005	0.015	0.080
Hampton City	HDGV2b	0.077	0.347	0.962
Hampton City	HDGB	0.004	0.009	0.076
Hampton City	HDDV8b	0.060	2.091	0.386
Hampton City	HDDV8a	0.014	0.510	0.081
Hampton City	HDDV7	0.011	0.268	0.043
Hampton City	HDDV6	0.006	0.145	0.023
Hampton City	HDDV5	0.001	0.017	0.003
Hampton City	HDDV4	0.002	0.038	0.007
Hampton City	HDDV3	0.002	0.038	0.008
Hampton City	HDDV2b	0.005	0.110	0.022
Hampton City	HDDBT	0.001	0.046	0.010
Hampton City	HDDBS	0.002	0.052	0.008
TOTAL for HAMPTON CITY		**8.332**	**10.371**	**99.625**
Isle Of Wight County	MC	0.015	0.005	0.088
Isle Of Wight County	LDGV	1.230	0.861	12.427
Isle Of Wight County	LDGT4	0.165	0.093	1.970
Isle Of Wight County	LDGT3	0.355	0.175	4.267
Isle Of Wight County	LDGT2	0.604	0.460	7.210
Isle Of Wight County	LDGT1	0.178	0.121	2.157
Isle Of Wight County	LDDV	0.001	0.002	0.002
Isle Of Wight County	LDDT34	0.001	0.002	0.002
Isle Of Wight County	LDDT12	0.001	0.001	0.002
Isle Of Wight County	HDGV8b	0.000	0.000	0.000
Isle Of Wight County	HDGV8a	0.000	0.000	0.000
Isle Of Wight County	HDGV7	0.004	0.009	0.046
Isle Of Wight County	HDGV6	0.006	0.017	0.069
Isle Of Wight County	HDGV5	0.003	0.008	0.031
Isle Of Wight County	HDGV4	0.002	0.004	0.025

Table 3-5				
2002 Ozone-Season Weekday Mobile Source Emissions By Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (TPD)**	**NOX (TPD)**	**CO (TPD)**
Isle Of Wight County	HDGV3	0.003	0.007	0.045
Isle Of Wight County	HDGV2b	0.049	0.172	0.543
Isle Of Wight County	HDGB	0.003	0.004	0.043
Isle Of Wight County	HDDV8b	0.032	0.894	0.182
Isle Of Wight County	HDDV8a	0.007	0.218	0.039
Isle Of Wight County	HDDV7	0.006	0.115	0.021
Isle Of Wight County	HDDV6	0.003	0.062	0.011
Isle Of Wight County	HDDV5	0.000	0.008	0.002
Isle Of Wight County	HDDV4	0.001	0.017	0.003
Isle Of Wight County	HDDV3	0.001	0.016	0.004
Isle Of Wight County	HDDV2b	0.003	0.047	0.010
Isle Of Wight County	HDDBT	0.001	0.020	0.005
Isle Of Wight County	HDDBS	0.001	0.023	0.004
TOTAL for ISLE OF WIGHT COUNTY		**2.674**	**3.361**	**29.209**
James City County	MC	0.017	0.008	0.093
James City County	LDGV	1.127	1.091	15.528
James City County	LDGT4	0.137	0.122	1.920
James City County	LDGT3	0.293	0.222	4.143
James City County	LDGT2	0.551	0.638	8.855
James City County	LDGT1	0.162	0.161	2.631
James City County	LDDV	0.001	0.003	0.002
James City County	LDDT34	0.001	0.005	0.003
James City County	LDDT12	0.001	0.001	0.002
James City County	HDGV8b	0.000	0.000	0.000
James City County	HDGV8a	0.000	0.000	0.000
James City County	HDGV7	0.002	0.009	0.034
James City County	HDGV6	0.004	0.017	0.051
James City County	HDGV5	0.002	0.008	0.024
James City County	HDGV4	0.001	0.004	0.018
James City County	HDGV3	0.002	0.007	0.032
James City County	HDGV2b	0.030	0.165	0.410
James City County	HDGB	0.002	0.004	0.032
James City County	HDDV8b	0.025	1.001	0.160
James City County	HDDV8a	0.006	0.245	0.034
James City County	HDDV7	0.005	0.131	0.018
James City County	HDDV6	0.003	0.071	0.010
James City County	HDDV5	0.000	0.009	0.001
James City County	HDDV4	0.001	0.019	0.003
James City County	HDDV3	0.001	0.019	0.003
James City County	HDDV2b	0.002	0.053	0.010
James City County	HDDBT	0.001	0.023	0.004
James City County	HDDBS	0.001	0.026	0.004

Table 3-5				
2002 Ozone-Season Weekday Mobile Source Emissions By Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (TPD)**	**NOX (TPD)**	**CO (TPD)**
TOTAL for JAMES CITY COUNTY		**2.378**	**4.061**	**34.027**
Newport News City	MC	0.052	0.023	0.303
Newport News City	LDGV	3.872	3.346	44.058
Newport News City	LDGT4	0.477	0.368	5.891
Newport News City	LDGT3	1.022	0.676	12.721
Newport News City	LDGT2	1.937	1.914	25.973
Newport News City	LDGT1	0.571	0.486	7.695
Newport News City	LDDV	0.004	0.008	0.009
Newport News City	LDDT34	0.005	0.013	0.010
Newport News City	LDDT12	0.003	0.004	0.006
Newport News City	HDGV8b	0.000	0.000	0.000
Newport News City	HDGV8a	0.000	0.000	0.000
Newport News City	HDGV7	0.005	0.018	0.068
Newport News City	HDGV6	0.008	0.035	0.107
Newport News City	HDGV5	0.004	0.017	0.050
Newport News City	HDGV4	0.003	0.007	0.037
Newport News City	HDGV3	0.004	0.014	0.064
Newport News City	HDGV2b	0.070	0.353	0.877
Newport News City	HDGB	0.004	0.008	0.064
Newport News City	HDDV8b	0.061	2.075	0.380
Newport News City	HDDV8a	0.014	0.508	0.082
Newport News City	HDDV7	0.012	0.275	0.044
Newport News City	HDDV6	0.007	0.150	0.024
Newport News City	HDDV5	0.001	0.019	0.004
Newport News City	HDDV4	0.002	0.040	0.008
Newport News City	HDDV3	0.002	0.039	0.008
Newport News City	HDDV2b	0.005	0.113	0.023
Newport News City	HDDBT	0.001	0.047	0.010
Newport News City	HDDBS	0.003	0.057	0.009
TOTAL for NEWPORT NEWS CITY		**8.150**	**10.615**	**98.523**
Norfolk City	MC	0.056	0.028	0.314
Norfolk City	LDGV	5.057	4.552	62.189
Norfolk City	LDGT4	0.597	0.490	7.814
Norfolk City	LDGT3	1.281	0.903	16.879
Norfolk City	LDGT2	2.480	2.597	35.892
Norfolk City	LDGT1	0.731	0.659	10.622
Norfolk City	LDDV	0.005	0.012	0.012
Norfolk City	LDDT34	0.006	0.018	0.012
Norfolk City	LDDT12	0.004	0.006	0.008
Norfolk City	HDGV8b	0.000	0.000	0.000
Norfolk City	HDGV8a	0.000	0.000	0.000
Norfolk City	HDGV7	0.006	0.026	0.090

Table 3-5				
2002 Ozone-Season Weekday Mobile Source Emissions By Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (TPD)**	**NOX (TPD)**	**CO (TPD)**
Norfolk City	HDGV6	0.011	0.052	0.142
Norfolk City	HDGV5	0.005	0.025	0.066
Norfolk City	HDGV4	0.004	0.011	0.049
Norfolk City	HDGV3	0.005	0.020	0.084
Norfolk City	HDGV2b	0.091	0.513	1.158
Norfolk City	HDGB	0.005	0.011	0.083
Norfolk City	HDDV8b	0.079	3.143	0.492
Norfolk City	HDDV8a	0.019	0.768	0.106
Norfolk City	HDDV7	0.016	0.402	0.057
Norfolk City	HDDV6	0.008	0.219	0.031
Norfolk City	HDDV5	0.001	0.027	0.005
Norfolk City	HDDV4	0.002	0.058	0.010
Norfolk City	HDDV3	0.002	0.057	0.011
Norfolk City	HDDV2b	0.007	0.164	0.030
Norfolk City	HDDBT	0.002	0.067	0.013
Norfolk City	HDDBS	0.003	0.082	0.012
TOTAL for NORFOLK CITY		**10.485**	**14.907**	**136.179**
Poquoson City	MC	0.002	0.001	0.013
Poquoson City	LDGV	0.151	0.105	1.276
Poquoson City	LDGT4	0.017	0.011	0.181
Poquoson City	LDGT3	0.037	0.020	0.391
Poquoson City	LDGT2	0.068	0.054	0.706
Poquoson City	LDGT1	0.020	0.014	0.207
Poquoson City	LDDV	0.000	0.000	0.000
Poquoson City	LDDT34	0.000	0.000	0.000
Poquoson City	LDDT12	0.000	0.000	0.000
Poquoson City	HDGV8b	0.000	0.000	0.000
Poquoson City	HDGV8a	0.000	0.000	0.000
Poquoson City	HDGV7	0.000	0.000	0.002
Poquoson City	HDGV6	0.000	0.001	0.004
Poquoson City	HDGV5	0.000	0.000	0.002
Poquoson City	HDGV4	0.000	0.000	0.001
Poquoson City	HDGV3	0.000	0.000	0.002
Poquoson City	HDGV2b	0.002	0.007	0.027
Poquoson City	HDGB	0.000	0.000	0.002
Poquoson City	HDDV8b	0.002	0.034	0.011
Poquoson City	HDDV8a	0.000	0.008	0.002
Poquoson City	HDDV7	0.000	0.005	0.001
Poquoson City	HDDV6	0.000	0.003	0.001
Poquoson City	HDDV5	0.000	0.000	0.000
Poquoson City	HDDV4	0.000	0.001	0.000
Poquoson City	HDDV3	0.000	0.001	0.000
Poquoson City	HDDV2b	0.000	0.002	0.001

Table 3-5				
2002 Ozone-Season Weekday Mobile Source Emissions By Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (TPD)**	**NOX (TPD)**	**CO (TPD)**
Poquoson City	HDDBT	0.000	0.001	0.000
Poquoson City	HDDBS	0.000	0.001	0.000
TOTAL for POQUOSON CITY		**0.302**	**0.269**	**2.831**
Portsmouth City	MC	0.020	0.009	0.109
Portsmouth City	LDGV	1.749	1.451	18.843
Portsmouth City	LDGT4	0.220	0.153	2.650
Portsmouth City	LDGT3	0.474	0.288	5.733
Portsmouth City	LDGT2	0.853	0.789	10.913
Portsmouth City	LDGT1	0.252	0.202	3.222
Portsmouth City	LDDV	0.002	0.004	0.004
Portsmouth City	LDDT34	0.002	0.005	0.004
Portsmouth City	LDDT12	0.002	0.002	0.003
Portsmouth City	HDGV8b	0.000	0.000	0.000
Portsmouth City	HDGV8a	0.000	0.000	0.000
Portsmouth City	HDGV7	0.002	0.007	0.029
Portsmouth City	HDGV6	0.004	0.014	0.045
Portsmouth City	HDGV5	0.002	0.007	0.020
Portsmouth City	HDGV4	0.001	0.003	0.016
Portsmouth City	HDGV3	0.002	0.005	0.027
Portsmouth City	HDGV2b	0.029	0.134	0.347
Portsmouth City	HDGB	0.002	0.003	0.026
Portsmouth City	HDDV8b	0.024	0.765	0.143
Portsmouth City	HDDV8a	0.006	0.187	0.031
Portsmouth City	HDDV7	0.005	0.099	0.016
Portsmouth City	HDDV6	0.002	0.054	0.009
Portsmouth City	HDDV5	0.000	0.007	0.001
Portsmouth City	HDDV4	0.001	0.014	0.003
Portsmouth City	HDDV3	0.001	0.014	0.003
Portsmouth City	HDDV2b	0.002	0.041	0.008
Portsmouth City	HDDBT	0.000	0.017	0.003
Portsmouth City	HDDBS	0.001	0.020	0.003
TOTAL for PORTSMOUTH CITY		**3.656**	**4.294**	**42.213**
Suffolk City	MC	0.022	0.011	0.122
Suffolk City	LDGV	2.088	1.870	26.170
Suffolk City	LDGT4	0.270	0.204	3.575
Suffolk City	LDGT3	0.581	0.380	7.728
Suffolk City	LDGT2	0.985	1.029	14.677
Suffolk City	LDGT1	0.291	0.262	4.352
Suffolk City	LDDV	0.002	0.005	0.005
Suffolk City	LDDT34	0.002	0.007	0.004
Suffolk City	LDDT12	0.002	0.003	0.003
Suffolk City	HDGV8b	0.000	0.000	0.000
Suffolk City	HDGV8a	0.000	0.000	0.000

Table 3-5				
2002 Ozone-Season Weekday Mobile Source Emissions By Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (TPD)**	**NOX (TPD)**	**CO (TPD)**
Suffolk City	HDGV7	0.004	0.014	0.055
Suffolk City	HDGV6	0.006	0.028	0.082
Suffolk City	HDGV5	0.003	0.013	0.037
Suffolk City	HDGV4	0.002	0.006	0.029
Suffolk City	HDGV3	0.003	0.011	0.052
Suffolk City	HDGV2b	0.049	0.276	0.653
Suffolk City	HDGB	0.003	0.006	0.053
Suffolk City	HDDV8b	0.041	1.684	0.254
Suffolk City	HDDV8a	0.010	0.411	0.055
Suffolk City	HDDV7	0.008	0.215	0.029
Suffolk City	HDDV6	0.004	0.117	0.016
Suffolk City	HDDV5	0.001	0.014	0.002
Suffolk City	HDDV4	0.001	0.031	0.005
Suffolk City	HDDV3	0.001	0.030	0.005
Suffolk City	HDDV2b	0.003	0.087	0.015
Suffolk City	HDDBT	0.001	0.036	0.007
Suffolk City	HDDBS	0.002	0.043	0.006
TOTAL for SUFFOLK CITY		**4.387**	**6.791**	**57.990**
Virginia Beach City	MC	0.083	0.041	0.456
Virginia Beach City	LDGV	6.074	5.558	72.399
Virginia Beach City	LDGT4	0.566	0.572	7.537
Virginia Beach City	LDGT3	1.203	1.008	16.226
Virginia Beach City	LDGT2	2.690	3.100	39.378
Virginia Beach City	LDGT1	0.788	0.769	11.625
Virginia Beach City	LDDV	0.005	0.011	0.012
Virginia Beach City	LDDT34	0.008	0.021	0.015
Virginia Beach City	LDDT12	0.003	0.004	0.006
Virginia Beach City	HDGV8b	0.000	0.000	0.000
Virginia Beach City	HDGV8a	0.000	0.000	0.000
Virginia Beach City	HDGV7	0.006	0.028	0.084
Virginia Beach City	HDGV6	0.011	0.056	0.137
Virginia Beach City	HDGV5	0.005	0.027	0.064
Virginia Beach City	HDGV4	0.004	0.011	0.045
Virginia Beach City	HDGV3	0.005	0.022	0.076
Virginia Beach City	HDGV2b	0.097	0.572	1.156
Virginia Beach City	HDGB	0.005	0.011	0.075
Virginia Beach City	HDDV8b	0.092	3.189	0.534
Virginia Beach City	HDDV8a	0.022	0.780	0.117
Virginia Beach City	HDDV7	0.019	0.420	0.064
Virginia Beach City	HDDV6	0.010	0.229	0.035
Virginia Beach City	HDDV5	0.001	0.029	0.005
Virginia Beach City	HDDV4	0.003	0.061	0.012
Virginia Beach City	HDDV3	0.003	0.060	0.012

Table 3-5				
2002 Ozone-Season Weekday Mobile Source Emissions By Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (TPD)**	**NOX (TPD)**	**CO (TPD)**
Virginia Beach City	HDDV2b	0.008	0.174	0.034
Virginia Beach City	HDDBT	0.002	0.072	0.015
Virginia Beach City	HDDBS	0.004	0.089	0.014
TOTAL for VIRGINIA BEACH CITY		**11.719**	**16.914**	**150.134**
Williamsburg City	MC	0.003	0.001	0.017
Williamsburg City	LDGV	0.201	0.178	2.174
Williamsburg City	LDGT4	0.020	0.019	0.246
Williamsburg City	LDGT3	0.043	0.033	0.529
Williamsburg City	LDGT2	0.096	0.101	1.249
Williamsburg City	LDGT1	0.028	0.025	0.368
Williamsburg City	LDDV	0.000	0.000	0.000
Williamsburg City	LDDT34	0.000	0.001	0.001
Williamsburg City	LDDT12	0.000	0.000	0.000
Williamsburg City	HDGV8b	0.000	0.000	0.000
Williamsburg City	HDGV8a	0.000	0.000	0.000
Williamsburg City	HDGV7	0.000	0.001	0.003
Williamsburg City	HDGV6	0.000	0.001	0.004
Williamsburg City	HDGV5	0.000	0.001	0.002
Williamsburg City	HDGV4	0.000	0.000	0.001
Williamsburg City	HDGV3	0.000	0.001	0.002
Williamsburg City	HDGV2b	0.003	0.015	0.036
Williamsburg City	HDGB	0.000	0.000	0.002
Williamsburg City	HDDV8b	0.003	0.075	0.017
Williamsburg City	HDDV8a	0.001	0.018	0.004
Williamsburg City	HDDV7	0.001	0.011	0.002
Williamsburg City	HDDV6	0.000	0.006	0.001
Williamsburg City	HDDV5	0.000	0.001	0.000
Williamsburg City	HDDV4	0.000	0.002	0.000
Williamsburg City	HDDV3	0.000	0.002	0.000
Williamsburg City	HDDV2b	0.000	0.004	0.001
Williamsburg City	HDDBT	0.000	0.002	0.000
Williamsburg City	HDDBS	0.000	0.002	0.000
TOTAL for WILLIAMSBURG CITY		**0.402**	**0.500**	**4.662**
York County	MC	0.020	0.010	0.110
York County	LDGV	1.529	1.402	19.659
York County	LDGT4	0.175	0.152	2.381
York County	LDGT3	0.374	0.276	5.140
York County	LDGT2	0.717	0.799	11.007
York County	LDGT1	0.211	0.202	3.263
York County	LDDV	0.001	0.003	0.003
York County	LDDT34	0.002	0.006	0.004
York County	LDDT12	0.001	0.002	0.002
York County	HDGV8b	0.000	0.000	0.000

Table 3-5				
2002 Ozone-Season Weekday Mobile Source Emissions By Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (TPD)**	**NOX (TPD)**	**CO (TPD)**
York County	HDGV8a	0.000	0.000	0.000
York County	HDGV7	0.002	0.009	0.032
York County	HDGV6	0.004	0.017	0.049
York County	HDGV5	0.002	0.008	0.022
York County	HDGV4	0.001	0.004	0.017
York County	HDGV3	0.002	0.007	0.030
York County	HDGV2b	0.030	0.163	0.388
York County	HDGB	0.002	0.004	0.030
York County	HDDV8b	0.025	0.973	0.157
York County	HDDV8a	0.006	0.238	0.034
York County	HDDV7	0.005	0.129	0.018
York County	HDDV6	0.003	0.070	0.010
York County	HDDV5	0.000	0.009	0.001
York County	HDDV4	0.001	0.019	0.003
York County	HDDV3	0.001	0.018	0.003
York County	HDDV2b	0.002	0.053	0.009
York County	HDDBT	0.001	0.022	0.004
York County	HDDBS	0.001	0.026	0.004
TOTAL for YORK COUNTY		**3.115**	**4.617**	**42.382**
GRAND TOTAL		**67.293**	**93.844**	**848.362**

Table 3-6				
2002 Annual Mobile Source Emissions by Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
Chesapeake City	MC	19.513	10.591	103.349
Chesapeake City	LDGV	1,697.386	1,471.669	22,639.528
Chesapeake City	LDGT4	165.039	156.142	2,298.850
Chesapeake City	LDGT3	350.557	278.448	4,953.590
Chesapeake City	LDGT2	770.465	836.409	13,036.262
Chesapeake City	LDGT1	225.845	213.251	3,917.540
Chesapeake City	LDDV	1.334	2.916	3.092
Chesapeake City	LDDT34	1.880	5.128	3.481
Chesapeake City	LDDT12	0.906	1.141	1.560
Chesapeake City	HDGV8b	0.000	0.000	0.000
Chesapeake City	HDGV8a	0.006	0.024	0.079
Chesapeake City	HDGV7	1.517	6.347	20.043
Chesapeake City	HDGV6	2.790	12.785	34.282
Chesapeake City	HDGV5	1.347	6.092	16.256
Chesapeake City	HDGV4	0.877	2.434	10.194
Chesapeake City	HDGV3	1.180	5.062	17.726
Chesapeake City	HDGV2b	24.908	133.613	302.264

Table 3-6				
2002 Annual Mobile Source Emissions by Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
Chesapeake City	HDGB	1.047	2.447	15.725
Chesapeake City	HDDV8b	20.607	810.287	127.377
Chesapeake City	HDDV8a	4.921	198.481	28.036
Chesapeake City	HDDV7	4.272	106.876	15.447
Chesapeake City	HDDV6	2.326	58.445	8.321
Chesapeake City	HDDV5	0.301	7.417	1.298
Chesapeake City	HDDV4	0.644	15.551	2.809
Chesapeake City	HDDV3	0.639	15.092	2.876
Chesapeake City	HDDV2b	1.873	43.782	8.118
Chesapeake City	HDDBT	0.434	18.006	3.377
Chesapeake City	HDDBS	0.963	22.846	3.328
TOTAL For CHESAPEAKE CITY		**3,303.58**	**4,441.28**	**47,574.81**
Gloucester County	MC	3.552	1.804	19.687
Gloucester County	LDGV	374.644	297.096	4,987.206
Gloucester County	LDGT4	44.844	31.946	633.698
Gloucester County	LDGT3	96.197	60.093	1,371.181
Gloucester County	LDGT2	186.943	165.965	3,043.001
Gloucester County	LDGT1	55.233	43.813	913.091
Gloucester County	LDDV	0.325	0.709	0.705
Gloucester County	LDDT34	0.331	0.913	0.599
Gloucester County	LDDT12	0.278	0.367	0.482
Gloucester County	HDGV8b	0.000	0.000	0.000
Gloucester County	HDGV8a	0.004	0.012	0.058
Gloucester County	HDGV7	0.931	2.935	14.869
Gloucester County	HDGV6	1.606	5.565	23.206
Gloucester County	HDGV5	0.763	2.627	10.750
Gloucester County	HDGV4	0.582	1.294	8.204
Gloucester County	HDGV3	0.755	2.304	13.906
Gloucester County	HDGV2b	12.885	52.375	180.159
Gloucester County	HDGB	0.646	1.357	12.240
Gloucester County	HDDV8b	8.118	316.646	56.203
Gloucester County	HDDV8a	1.896	77.201	11.750
Gloucester County	HDDV7	1.523	41.691	6.120
Gloucester County	HDDV6	0.808	22.380	3.214
Gloucester County	HDDV5	0.097	2.685	0.417
Gloucester County	HDDV4	0.222	5.903	0.977
Gloucester County	HDDV3	0.233	5.970	1.073
Gloucester County	HDDV2b	0.671	17.087	3.011
Gloucester County	HDDBT	0.202	7.251	1.404
Gloucester County	HDDBS	0.308	8.101	1.166
TOTAL For GLOUCESTER COUNTY		**794.60**	**1,176.09**	**11,318.37**
Hampton City	MC	13.826	7.445	72.960

Table 3-6				
2002 Annual Mobile Source Emissions by Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
Hampton City	LDGV	1,365.842	1,100.445	16,811.775
Hampton City	LDGT4	168.074	122.533	2,118.612
Hampton City	LDGT3	360.348	229.180	4,580.176
Hampton City	LDGT2	683.352	624.022	10,279.623
Hampton City	LDGT1	201.374	162.059	3,079.510
Hampton City	LDDV	1.241	2.592	2.753
Hampton City	LDDT34	1.400	3.507	2.526
Hampton City	LDDT12	1.132	1.375	1.941
Hampton City	HDGV8b	0.000	0.000	0.000
Hampton City	HDGV8a	0.006	0.019	0.081
Hampton City	HDGV7	1.731	5.348	22.773
Hampton City	HDGV6	2.975	10.247	35.683
Hampton City	HDGV5	1.421	4.876	16.635
Hampton City	HDGV4	1.075	2.328	12.573
Hampton City	HDGV3	1.421	4.243	21.304
Hampton City	HDGV2b	24.360	98.579	283.066
Hampton City	HDGB	1.276	2.483	19.617
Hampton City	HDDV8b	16.963	584.307	109.876
Hampton City	HDDV8a	3.972	142.562	23.211
Hampton City	HDDV7	3.248	75.783	12.259
Hampton City	HDDV6	1.738	40.963	6.484
Hampton City	HDDV5	0.211	4.967	0.883
Hampton City	HDDV4	0.474	10.759	2.021
Hampton City	HDDV3	0.491	10.771	2.186
Hampton City	HDDV2b	1.429	31.034	6.190
Hampton City	HDDBT	0.397	12.924	2.776
Hampton City	HDDBS	0.671	14.941	2.405
TOTAL For HAMPTON CITY		**2,860.45**	**3,310.29**	**37,529.90**
Isle Of Wight County	MC	4.606	2.074	26.648
Isle Of Wight County	LDGV	430.687	310.145	5,069.875
Isle Of Wight County	LDGT4	55.135	34.632	707.121
Isle Of Wight County	LDGT3	118.281	65.329	1,530.665
Isle Of Wight County	LDGT2	213.769	170.614	3,084.516
Isle Of Wight County	LDGT1	62.970	44.734	925.830
Isle Of Wight County	LDDV	0.385	0.688	0.812
Isle Of Wight County	LDDT34	0.372	0.808	0.645
Isle Of Wight County	LDDT12	0.350	0.370	0.590
Isle Of Wight County	HDGV8b	0.000	0.000	0.000
Isle Of Wight County	HDGV8a	0.004	0.011	0.052
Isle Of Wight County	HDGV7	1.101	3.018	14.441
Isle Of Wight County	HDGV6	1.877	5.783	22.414
Isle Of Wight County	HDGV5	0.889	2.743	10.309
Isle Of Wight County	HDGV4	0.676	1.296	7.756

Table 3-6				
2002 Annual Mobile Source Emissions by Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
Isle Of Wight County	HDGV3	0.923	2.471	13.670
Isle Of Wight County	HDGV2b	15.700	57.088	180.409
Isle Of Wight County	HDGB	0.832	1.404	12.671
Isle Of Wight County	HDDV8b	10.201	294.605	59.871
Isle Of Wight County	HDDV8a	2.381	71.829	12.737
Isle Of Wight County	HDDV7	1.944	38.168	6.806
Isle Of Wight County	HDDV6	1.043	20.681	3.608
Isle Of Wight County	HDDV5	0.127	2.543	0.501
Isle Of Wight County	HDDV4	0.283	5.465	1.136
Isle Of Wight County	HDDV3	0.291	5.413	1.216
Isle Of Wight County	HDDV2b	0.840	15.503	3.404
Isle Of Wight County	HDDBT	0.218	6.488	1.503
Isle Of Wight County	HDDBS	0.400	7.534	1.333
TOTAL For ISLE OF WIGHT COUNTY		**926.28**	**1,171.44**	**11,700.54**
James City County	MC	5.223	2.895	26.218
James City County	LDGV	397.293	378.444	5,952.039
James City County	LDGT4	45.389	42.766	664.271
James City County	LDGT3	96.747	76.948	1,432.396
James City County	LDGT2	194.772	223.175	3,566.105
James City County	LDGT1	57.290	57.247	1,073.535
James City County	LDDV	0.321	0.773	0.747
James City County	LDDT34	0.437	1.397	0.819
James City County	LDDT12	0.274	0.374	0.477
James City County	HDGV8b	0.000	0.000	0.000
James City County	HDGV8a	0.003	0.009	0.034
James City County	HDGV7	0.677	2.487	9.479
James City County	HDGV6	1.172	4.839	15.034
James City County	HDGV5	0.563	2.312	7.030
James City County	HDGV4	0.420	1.050	5.138
James City County	HDGV3	0.552	2.011	8.861
James City County	HDGV2b	9.881	48.659	124.315
James City County	HDGB	0.518	1.139	8.473
James City County	HDDV8b	7.443	286.803	46.946
James City County	HDDV8a	1.746	70.286	10.059
James City County	HDDV7	1.458	38.071	5.433
James City County	HDDV6	0.786	20.709	2.897
James City County	HDDV5	0.097	2.555	0.424
James City County	HDDV4	0.213	5.462	0.949
James City County	HDDV3	0.217	5.385	0.999
James City County	HDDV2b	0.627	15.447	2.820
James City County	HDDBT	0.189	6.690	1.311
James City County	HDDBS	0.310	7.727	1.106
TOTAL For JAMES CITY COUNTY		**824.62**	**1,305.66**	**12,967.91**

Table 3-6				
2002 Annual Mobile Source Emissions by Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
Newport News City	MC	15.759	8.510	85.535
Newport News City	LDGV	1,407.767	1,154.512	17,642.741
Newport News City	LDGT4	160.603	129.557	2,059.057
Newport News City	LDGT3	342.750	236.611	4,443.709
Newport News City	LDGT2	698.151	675.251	10,761.996
Newport News City	LDGT1	205.147	173.945	3,234.575
Newport News City	LDDV	1.214	2.481	2.776
Newport News City	LDDT34	1.590	3.940	2.897
Newport News City	LDDT12	0.982	1.161	1.676
Newport News City	HDGV8b	0.000	0.000	0.000
Newport News City	HDGV8a	0.006	0.018	0.073
Newport News City	HDGV7	1.539	5.113	19.702
Newport News City	HDGV6	2.719	10.061	32.154
Newport News City	HDGV5	1.320	4.836	15.274
Newport News City	HDGV4	0.945	2.135	10.700
Newport News City	HDGV3	1.238	4.104	17.919
Newport News City	HDGV2b	23.453	102.400	271.363
Newport News City	HDGB	1.161	2.244	16.917
Newport News City	HDDV8b	17.859	592.516	111.542
Newport News City	HDDV8a	4.222	145.137	24.017
Newport News City	HDDV7	3.575	79.064	12.999
Newport News City	HDDV6	1.934	43.089	6.954
Newport News City	HDDV5	0.240	5.372	1.035
Newport News City	HDDV4	0.526	11.428	2.304
Newport News City	HDDV3	0.536	11.295	2.428
Newport News City	HDDV2b	1.553	32.439	6.861
Newport News City	HDDBT	0.370	13.424	2.814
Newport News City	HDDBS	0.776	16.373	2.705
TOTAL For NEWPORT NEWS CITY		**2,897.93**	**3,467.02**	**38,792.73**
Norfolk City	MC	16.624	10.146	87.166
Norfolk City	LDGV	1,781.167	1,545.089	23,950.327
Norfolk City	LDGT4	196.932	169.329	2,693.587
Norfolk City	LDGT3	420.563	309.765	5,814.550
Norfolk City	LDGT2	871.453	897.813	14,413.515
Norfolk City	LDGT1	256.182	230.690	4,316.390
Norfolk City	LDDV	1.513	3.405	3.450
Norfolk City	LDDT34	1.892	5.146	3.436
Norfolk City	LDDT12	1.254	1.593	2.160
Norfolk City	HDGV8b	0.000	0.000	0.000
Norfolk City	HDGV8a	0.007	0.026	0.090
Norfolk City	HDGV7	1.906	7.296	25.307
Norfolk City	HDGV6	3.392	14.408	41.411

Table 3-6				
2002 Annual Mobile Source Emissions by Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
Norfolk City	HDGV5	1.631	6.860	19.475
Norfolk City	HDGV4	1.146	2.951	13.396
Norfolk City	HDGV3	1.519	5.812	23.026
Norfolk City	HDGV2b	29.140	145.970	348.618
Norfolk City	HDGB	1.385	3.083	21.331
Norfolk City	HDDV8b	22.551	877.573	140.366
Norfolk City	HDDV8a	5.333	214.494	30.395
Norfolk City	HDDV7	4.522	113.484	16.495
Norfolk City	HDDV6	2.447	61.813	8.825
Norfolk City	HDDV5	0.309	7.698	1.313
Norfolk City	HDDV4	0.673	16.310	2.895
Norfolk City	HDDV3	0.679	16.025	3.027
Norfolk City	HDDV2b	1.985	46.342	8.556
Norfolk City	HDDBT	0.487	19.046	3.597
Norfolk City	HDDBS	0.986	23.423	3.433
TOTAL For NORFOLK CITY		**3,627.68**	**4,755.59**	**51,996.14**
Poquoson City	MC	0.722	0.312	3.772
Poquoson City	LDGV	56.068	37.077	530.876
Poquoson City	LDGT4	5.942	3.918	64.390
Poquoson City	LDGT3	12.703	7.244	139.143
Poquoson City	LDGT2	25.184	19.832	309.919
Poquoson City	LDGT1	7.388	5.103	92.725
Poquoson City	LDDV	0.059	0.087	0.121
Poquoson City	LDDT34	0.057	0.105	0.101
Poquoson City	LDDT12	0.036	0.035	0.060
Poquoson City	HDGV8b	0.000	0.000	0.000
Poquoson City	HDGV8a	0.000	0.000	0.003
Poquoson City	HDGV7	0.063	0.120	0.707
Poquoson City	HDGV6	0.106	0.227	1.084
Poquoson City	HDGV5	0.050	0.108	0.500
Poquoson City	HDGV4	0.038	0.053	0.387
Poquoson City	HDGV3	0.052	0.094	0.645
Poquoson City	HDGV2b	0.867	2.152	8.433
Poquoson City	HDGB	0.048	0.057	0.603
Poquoson City	HDDV8b	0.569	10.498	3.467
Poquoson City	HDDV8a	0.132	2.552	0.729
Poquoson City	HDDV7	0.107	1.485	0.385
Poquoson City	HDDV6	0.057	0.799	0.203
Poquoson City	HDDV5	0.007	0.099	0.027
Poquoson City	HDDV4	0.015	0.216	0.063
Poquoson City	HDDV3	0.016	0.218	0.069
Poquoson City	HDDV2b	0.047	0.627	0.196
Poquoson City	HDDBT	0.016	0.273	0.097

Table 3-6				
2002 Annual Mobile Source Emissions by Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
Poquoson City	HDDBS	0.022	0.296	0.074
TOTAL For POQUOSON CITY		**110.37**	**93.59**	**1,158.78**
Portsmouth City	MC	6.087	3.317	31.168
Portsmouth City	LDGV	632.576	502.473	7,557.499
Portsmouth City	LDGT4	73.834	54.613	923.253
Portsmouth City	LDGT3	158.181	101.923	1,995.719
Portsmouth City	LDGT2	308.192	281.824	4,559.343
Portsmouth City	LDGT1	90.661	72.852	1,361.986
Portsmouth City	LDDV	0.556	1.113	1.220
Portsmouth City	LDDT34	0.641	1.494	1.129
Portsmouth City	LDDT12	0.473	0.543	0.803
Portsmouth City	HDGV8b	0.000	0.000	0.000
Portsmouth City	HDGV8a	0.002	0.007	0.028
Portsmouth City	HDGV7	0.672	2.092	8.336
Portsmouth City	HDGV6	1.170	4.065	13.269
Portsmouth City	HDGV5	0.556	1.920	6.165
Portsmouth City	HDGV4	0.402	0.864	4.457
Portsmouth City	HDGV3	0.543	1.642	7.630
Portsmouth City	HDGV2b	9.748	39.605	106.786
Portsmouth City	HDGB	0.484	0.916	6.993
Portsmouth City	HDDV8b	7.063	223.074	42.530
Portsmouth City	HDDV8a	1.659	54.444	9.123
Portsmouth City	HDDV7	1.371	29.136	4.915
Portsmouth City	HDDV6	0.736	15.779	2.610
Portsmouth City	HDDV5	0.092	1.968	0.371
Portsmouth City	HDDV4	0.202	4.208	0.833
Portsmouth City	HDDV3	0.207	4.165	0.885
Portsmouth City	HDDV2b	0.604	12.065	2.514
Portsmouth City	HDDBT	0.145	4.963	1.030
Portsmouth City	HDDBS	0.289	5.913	0.983
TOTAL For PORTSMOUTH CITY		**1,297.15**	**1,426.98**	**16,651.58**
Suffolk City	MC	6.772	4.036	35.230
Suffolk City	LDGV	761.744	672.084	10,514.980
Suffolk City	LDGT4	91.773	74.171	1,259.820
Suffolk City	LDGT3	196.581	137.267	2,721.598
Suffolk City	LDGT2	361.489	375.810	6,176.050
Suffolk City	LDGT1	106.519	97.008	1,852.162
Suffolk City	LDDV	0.669	1.575	1.509
Suffolk City	LDDT34	0.740	2.205	1.364
Suffolk City	LDDT12	0.573	0.752	0.994
Suffolk City	HDGV8b	0.000	0.000	0.000
Suffolk City	HDGV8a	0.004	0.016	0.060

Table 3-6				
2002 Annual Mobile Source Emissions by Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
Suffolk City	HDGV7	1.179	4.427	16.377
Suffolk City	HDGV6	2.020	8.602	25.646
Suffolk City	HDGV5	0.957	4.089	11.816
Suffolk City	HDGV4	0.711	1.824	8.571
Suffolk City	HDGV3	0.958	3.574	15.160
Suffolk City	HDGV2b	16.924	86.349	210.641
Suffolk City	HDGB	0.899	2.008	14.764
Suffolk City	HDDV8b	12.788	520.426	79.002
Suffolk City	HDDV8a	2.996	127.155	17.006
Suffolk City	HDDV7	2.502	66.613	9.175
Suffolk City	HDDV6	1.349	36.247	4.893
Suffolk City	HDDV5	0.168	4.468	0.718
Suffolk City	HDDV4	0.367	9.484	1.592
Suffolk City	HDDV3	0.372	9.309	1.670
Suffolk City	HDDV2b	1.083	26.874	4.712
Suffolk City	HDDBT	0.284	11.203	2.077
Suffolk City	HDDBS	0.530	13.355	1.859
TOTAL For SUFFOLK CITY		**1,572.96**	**2,300.93**	**22,989.45**
Virginia Beach City	MC	25.557	15.411	130.544
Virginia Beach City	LDGV	2,216.132	1,936.058	29,295.960
Virginia Beach City	LDGT4	197.894	204.437	2,797.948
Virginia Beach City	LDGT3	418.188	358.183	6,020.463
Virginia Beach City	LDGT2	983.179	1,108.725	16,713.003
Virginia Beach City	LDGT1	287.001	279.755	5,020.535
Virginia Beach City	LDDV	1.677	3.388	3.834
Virginia Beach City	LDDT34	2.515	6.384	4.496
Virginia Beach City	LDDT12	1.002	1.170	1.698
Virginia Beach City	HDGV8b	0.000	0.000	0.000
Virginia Beach City	HDGV8a	0.008	0.028	0.091
Virginia Beach City	HDGV7	2.015	8.062	24.793
Virginia Beach City	HDGV6	3.673	16.167	41.927
Virginia Beach City	HDGV5	1.788	7.749	20.013
Virginia Beach City	HDGV4	1.205	3.174	12.975
Virginia Beach City	HDGV3	1.574	6.486	21.968
Virginia Beach City	HDGV2b	32.613	169.337	366.894
Virginia Beach City	HDGB	1.450	3.213	20.080
Virginia Beach City	HDDV8b	27.336	923.214	157.691
Virginia Beach City	HDDV8a	6.516	225.986	34.638
Virginia Beach City	HDDV7	5.633	122.898	19.096
Virginia Beach City	HDDV6	3.068	67.241	10.287
Virginia Beach City	HDDV5	0.392	8.594	1.607
Virginia Beach City	HDDV4	0.841	18.007	3.485
Virginia Beach City	HDDV3	0.841	17.552	3.594

Table 3-6				
2002 Annual Mobile Source Emissions by Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
Virginia Beach City	HDDV2b	2.459	50.850	10.197
Virginia Beach City	HDDBT	0.601	21.094	4.351
Virginia Beach City	HDDBS	1.261	26.348	4.101
TOTAL For VIRGINIA BEACH CITY		**4,226.42**	**5,609.51**	**60,746.27**
Williamsburg City	MC	0.883	0.526	5.113
Williamsburg City	LDGV	76.466	63.484	937.159
Williamsburg City	LDGT4	7.324	6.979	94.354
Williamsburg City	LDGT3	15.468	12.203	202.975
Williamsburg City	LDGT2	36.181	37.448	556.236
Williamsburg City	LDGT1	10.555	9.449	167.354
Williamsburg City	LDDV	0.060	0.109	0.138
Williamsburg City	LDDT34	0.096	0.213	0.172
Williamsburg City	LDDT12	0.043	0.045	0.072
Williamsburg City	HDGV8b	0.000	0.000	0.000
Williamsburg City	HDGV8a	0.000	0.001	0.003
Williamsburg City	HDGV7	0.069	0.224	0.790
Williamsburg City	HDGV6	0.126	0.451	1.348
Williamsburg City	HDGV5	0.061	0.216	0.645
Williamsburg City	HDGV4	0.041	0.087	0.417
Williamsburg City	HDGV3	0.057	0.181	0.727
Williamsburg City	HDGV2b	1.143	4.739	11.931
Williamsburg City	HDGB	0.052	0.091	0.666
Williamsburg City	HDDV8b	0.914	23.307	5.255
Williamsburg City	HDDV8a	0.218	5.686	1.153
Williamsburg City	HDDV7	0.191	3.284	0.632
Williamsburg City	HDDV6	0.104	1.795	0.341
Williamsburg City	HDDV5	0.013	0.236	0.054
Williamsburg City	HDDV4	0.029	0.494	0.116
Williamsburg City	HDDV3	0.028	0.478	0.118
Williamsburg City	HDDV2b	0.083	1.390	0.335
Williamsburg City	HDDBT	0.019	0.576	0.139
Williamsburg City	HDDBS	0.043	0.723	0.136
TOTAL For WILLIAMSBURG CITY		**150.27**	**174.41**	**1,988.38**
York County	MC	6.134	3.551	30.797
York County	LDGV	541.139	488.815	7,590.794
York County	LDGT4	58.423	53.402	833.411
York County	LDGT3	124.591	96.698	1,797.719
York County	LDGT2	255.610	281.722	4,494.076
York County	LDGT1	75.160	72.373	1,349.107
York County	LDDV	0.465	1.050	1.050
York County	LDDT34	0.568	1.698	1.050
York County	LDDT12	0.342	0.449	0.593

Table 3-6 2002 Annual Mobile Source Emissions by Vehicle Type				
JURISDICTION	**VEHICLE CLASS**	**VOC (tons)**	**NOx (tons)**	**CO (tons)**
York County	HDGV8b	0.000	0.000	0.000
York County	HDGV8a	0.002	0.008	0.031
York County	HDGV7	0.656	2.454	9.059
York County	HDGV6	1.137	4.776	14.383
York County	HDGV5	0.540	2.266	6.645
York County	HDGV4	0.393	1.011	4.736
York County	HDGV3	0.522	1.945	8.251
York County	HDGV2b	9.553	47.526	118.246
York County	HDGB	0.478	1.087	7.819
York County	HDDV8b	7.153	278.339	45.754
York County	HDDV8a	1.684	68.004	9.816
York County	HDDV7	1.408	37.208	5.276
York County	HDDV6	0.759	20.208	2.810
York County	HDDV5	0.095	2.522	0.408
York County	HDDV4	0.208	5.389	0.912
York County	HDDV3	0.212	5.318	0.963
York County	HDDV2b	0.614	15.296	2.703
York County	HDDBT	0.174	6.483	1.246
York County	HDDBS	0.300	7.622	1.073
TOTAL For YORK COUNTY		**1,088.32**	**1,507.22**	**16,338.73**
GRAND TOTAL		**23,680.62**	**30,740.01**	**331,753.58**

With respect to technical review, documentation supporting the development of the 2002 ozone-season weekday and annual mobile source inventories for the Hampton Roads nonattainment area can be made available upon a written request to the Virginia Department of Environmental Quality, Air Division, P.O. Box 10009, Richmond, Virginia 23240, Attention Mr. Thomas Ballou, Director, Office of Air Data Analysis.

In the following sections, the discussion will focus on the development of the mobile source pollutant emission factors and activity data for the calendar year evaluated.

3.1 Mobile 6.2 Emission Factor Development

Emission factor modeling using MOBILE 6.2 was performed for each of the jurisdictions within the Hampton Roads ozone nonattainment area, which includes: Chesapeake City, Gloucester County, Hampton City, Isle of Wight County, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, and York County. Each MOBILE 6.2 input file prepared contains a separate run for each of the thirteen jurisdictions, and numerous scenarios representing different road types within each jurisdiction, each modeled with their own average speed.

The annual inventory is based on the sum of four seasonal inventories (winter, spring, summer, and fall). Four sets of seasonal input conditions and four sets of MOBILE 6.2 runs were used. For this inventory, the 5-month ozone season (May through September) was modeled as summer. October, November, and December were modeled as Fall. January and February were modeled as winter. March and April were modeled as spring. The temperature, humidity, and barometric pressure inputs were derived by accumulating average daily data for each month of the year as recorded at Norfolk International Airport during 2002. The average minimum and maximum temperatures for each month were used to calculate four seasonal average minimum and maximum temperatures. Similarly, the mean barometric pressure and relative humidity

for each month were used to calculate four seasonal average values. The monthly averages and their corresponding seasonal values are shown in Table 3.1-1 below.

Table 3.1-1
2002 Hampton Roads Nonattainment Area
Average Monthly and Seasonal Meteorological Data

Month	Avg Max Temperature (F)	Avg Min Temperature (F)	Avg Mean Temperature (F)	Avg Pressure (In)	Avg Mean Humidity
Jan	53.16	36.03	44.61	30.05	70.3
Feb	54.82	36.21	45.86	30.10	59.9
Mar	60.94	43.00	52.26	30.15	69.6
Apr	71.13	53.63	62.40	30.11766667	67.2
May	75.39	57.61	66.39	30.06451613	68.8
Jun	85.23	67.93	76.37	30.02733333	69.2
Jul	88.52	72.68	80.61	30.01806452	69.7
Aug	87.06	71.42	79.19	30.05322581	71.6
Sep	79.77	67.70	73.80	30.049	77.1
Oct	69.90	58.26	64.19	30.0583871	77.6
Nov	58.97	42.80	50.93	30.026	71.2
Dec	49.06	35.06	42.26	30.08	72.5
Winter	53.99	36.12	45.24	30.08	65.13
Spring	66.03	48.32	57.33	30.13	68.4
Summer	83.19	67.47	75.27	30.04	71.3
Fall	59.31	45.37	52.46	30.05	73.75

For the ozone-season weekday inventory, the temperature, humidity, and barometric pressure inputs were derived by accumulating hourly data from the 10 highest 8-hour ozone days recorded at air monitoring stations in the Hampton Roads ozone nonattainment area between 2003 and 2005. These days and their corresponding 8-hour ozone values are shown in Table 3.1-2 below.

Table 3.1-2
2003-2005 Hampton Roads Air Monitor
10 Highest 8-Hour Ozone Readings (ppm)

Site	Date	8-hr. Maximum
Hampton	6/26/2003	0.112
Suffolk (TCC)	7/21/2004	0.099
Hampton	6/25/2003	0.096
Suffolk (TCC)	6/24/2003	0.087
Suffolk (Holland)	6/27/2003	0.087
Suffolk (TCC)	8/4/2005	0.086
Suffolk (Holland)	9/9/2005	0.082
Suffolk (TCC)	4/20/2005	0.080
Suffolk (TCC)	8/3/2005	0.080
Suffolk (Holland)	6/24/2005	0.079

The average temperature and relative humidity for each hour of the day on the 10 highest 8-hour ozone days are shown in Table 3.1-3 below. These 24 hourly temperature and relative humidity values were used as inputs to the Mobile 6.2 model. In addition, the barometric pressure input was calculated by averaging the 24 hourly values for these 10 days.

Table 3.1-3

Average Hourly Meteorological Data

Time (EDT)	Temperature (F)	Dew Point (F)	Relative Humidity (%)	Pressure (In)
6:00 AM	71.77	66.4	83.9	30.017
7:00 AM	75.2	67.7	78.1	30.029
8:00 AM	77.8	68.09	72.7	30.033
9:00 AM	81.07	67.22	63	30.034
10:00 AM	83.04	66.91	58.5	30.034
11:00 AM	84.34	65.99	54.5	30.027
12:00 PM	85.79	65.04	50	30.019
1:00 PM	86.59	64.81	48.9	30.009
2:00 PM	87.4	64.09	46.6	29.996
3:00 PM	87.27	63.82	46	29.985
4:00 PM	87.6	63.22	44.7	29.978
5:00 PM	87.01	63.86	46.7	29.974
6:00 PM	85.51	63.99	49.1	29.973
7:00 PM	83.21	65.42	55.9	29.982
8:00 PM	79.39	68.16	69	29.990
9:00 PM	77.9	68.5	73.3	30.004
10:00 PM	77.02	68.08	74.5	30.006
11:00 PM	75.38	67.87	78.1	30.007
12:00 AM	73.31	66.4	79.8	30.006
1:00 AM	72.91	66.31	80.7	30.004
2:00 AM	72.71	66.49	81.7	29.997
3:00 AM	71.9	63.8	78.1	29.995
4:00 AM	71.2	65.5	82.8	29.995
5:00 AM	70.73	65.49	84.3	30.006
	Avg Min T	70.51		
	Avg Max T	88.01		
	Avg Pres	30.004		

For the 2002 analysis year, Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, and York County were modeled with reformulated gasoline (RFG), while Gloucester and Isle of Wight were modeled with conventional southern grade gasoline with an average Reid vapor pressure (RVP) of 8.4 psi.

The Virginia Department of Motor Vehicles (DMV) provided statewide jurisdictional-specific registration data as of July 1, 2002 that was reformatted for Mobile 6.2 input.

3.2 Mobile Source Activity Data Development

As summarized in Table3.2-1 below, the Virginia Department of Transportation (VDOT) provided jurisdictional, road-specific, average daily VMT and speed data for the 2002 base year.

Table 3.2-1

2002 Mobile Source Activity Data

FIPS	Jurisdiction	ROADFHWA	AVDAYVMT	ANNLVMT	RUN	SCEN	SPEED
550	City of Chesapeake	11	1,805,366	658,958,590	1	1	55.64
550	City of Chesapeake	12	578,649	211,206,885	1	2	56.47
550	City of Chesapeake	14	649,763	237,163,495	1	3	45.35
550	City of Chesapeake	16	1,296,938	473,382,370	1	4	42.39
550	City of Chesapeake	17	305,768	111,605,320	1	5	20.42
550	City of Chesapeake	19	850,335	310,372,275	1	6	12.9
650	City of Hampton	11	1,674,705	611,267,325	2	1	55.17
650	City of Hampton	12	84,171	30,722,415	2	2	55
650	City of Hampton	14	330,377	120,587,605	2	3	41.67
650	City of Hampton	16	811,878	296,335,470	2	4	39.58
650	City of Hampton	17	259,610	94,757,650	2	5	25.59
650	City of Hampton	19	626,256	228,583,440	2	6	12.9
700	City of Newport News	11	1,545,596	564,142,540	3	1	55.45
700	City of Newport News	14	881,987	321,925,255	3	2	42.63
700	City of Newport News	16	909,581	331,997,065	3	3	39.62
700	City of Newport News	17	306,718	111,952,070	3	4	17.74
700	City of Newport News	19	728,015	265,725,475	3	5	12.9
710	City of Norfolk	11	2,645,444	965,587,060	4	1	55.12
710	City of Norfolk	12	6,860	2,503,900	4	2	54.98
710	City of Norfolk	14	1,495,983	546,033,795	4	3	41.72
710	City of Norfolk	16	835,479	304,949,835	4	4	37.49
710	City of Norfolk	17	201,385	73,505,525	4	5	11.55
710	City of Norfolk	19	394,371	143,945,415	4	6	12.9
735	City of Poquoson	16	28,181	10,286,065	5	1	43.95
735	City of Poquoson	17	48,983	17,878,795	5	2	35
735	City of Poquoson	19	48,956	17,868,940	5	3	12.9
740	City of Portsmouth	11	337,973	123,360,145	6	1	55
740	City of Portsmouth	12	145,276	53,025,740	6	2	55.3
740	City of Portsmouth	14	394,801	144,102,365	6	3	42.89
740	City of Portsmouth	16	450,350	164,377,750	6	4	38.98
740	City of Portsmouth	17	139,260	50,829,900	6	5	23
740	City of Portsmouth	19	235,048	85,792,520	6	6	12.9
800	City of Suffolk	2	392,469	143,251,185	7	1	49.68
800	City of Suffolk	6	75,612	27,598,380	7	2	43.73
800	City of Suffolk	7	32,429	11,836,585	7	3	40.87
800	City of Suffolk	8	32,228	11,763,220	7	4	40.49
800	City of Suffolk	9	64,633	23,591,045	7	5	12.9
800	City of Suffolk	11	282,930	103,269,450	7	6	58

Table 3.2-1							
2002 Mobile Source Activity Data							
FIPS	**Jurisdiction**	**ROADFHWA**	**AVDAYVMT**	**ANNLVMT**	**RUN**	**SCEN**	**SPEED**
800	City of Suffolk	12	495,685	180,925,025	7	7	58
800	City of Suffolk	14	433,145	158,097,925	7	8	49.68
800	City of Suffolk	16	357,798	130,596,270	7	9	43.73
800	City of Suffolk	17	88,847	32,429,155	7	10	28.38
800	City of Suffolk	19	116,847	42,649,155	7	11	12.9
810	City of Virginia Beach	11	1,759,653	642,273,345	8	1	55.12
810	City of Virginia Beach	12	126,453	46,155,345	8	2	55
810	City of Virginia Beach	14	1,197,812	437,201,380	8	3	41.45
810	City of Virginia Beach	16	2,868,817	1,047,118,205	8	4	39.69
810	City of Virginia Beach	17	776,302	283,350,230	8	5	35
810	City of Virginia Beach	19	867,842	316,762,330	8	6	12.9
830	City of Williamsburg	12	8,735	3,188,275	9	1	57.08
830	City of Williamsburg	14	76,098	27,775,770	9	2	45.98
830	City of Williamsburg	16	92,108	33,619,420	9	3	39.44
830	City of Williamsburg	17	31,502	11,498,230	9	4	25
830	City of Williamsburg	19	53,179	19,410,335	9	5	12.9
095	James City County	1	387,146	141,308,290	10	1	57.43
095	James City County	6	146,949	53,636,385	10	2	45.28
095	James City County	7	124,332	45,381,180	10	3	36.94
095	James City County	8	28,621	10,446,665	10	4	35.14
095	James City County	9	67,106	24,493,690	10	5	12.9
095	James City County	11	183,087	66,826,755	10	6	57.43
095	James City County	12	171,687	62,665,755	10	7	56.83
095	James City County	14	106,292	38,796,580	10	8	48.52
095	James City County	16	169,153	61,740,845	10	9	45.28
095	James City County	17	50,176	18,314,240	10	10	35
095	James City County	19	28,977	10,576,605	10	11	12.9
199	York County	1	282,557	103,133,305	11	1	57.99
199	York County	6	26,734	9,757,910	11	2	42.23
199	York County	7	21,020	7,672,300	11	3	32.32
199	York County	9	27,413	10,005,745	11	4	12.9
199	York County	11	302,212	110,307,380	11	5	57.99
199	York County	12	48,621	17,746,665	11	6	56.7
199	York County	14	605,669	221,069,185	11	7	48.46
199	York County	16	228,171	83,282,415	11	8	42.23
199	York County	17	134,214	48,988,110	11	9	35
199	York County	19	123,693	45,147,945	11	10	12.9
073	Gloucester County	2	303,730	110,861,450	12	1	59
073	Gloucester County	6	166,862	60,904,630	12	2	50
073	Gloucester County	7	138,836	50,675,140	12	3	35
073	Gloucester County	8	24,416	8,911,840	12	4	37
073	Gloucester County	9	62,706	22,887,690	12	5	12.9
073	Gloucester County	14	233,896	85,372,040	12	6	50

Table 3.2-1							
2002 Mobile Source Activity Data							
FIPS	Jurisdiction	ROADFHWA	AVDAYVMT	ANNLVMT	RUN	SCEN	SPEED
073	Gloucester County	17	50,393	18,393,445	12	7	27
073	Gloucester County	19	17,116	6,247,340	12	8	12.9
093	Isle of Wight County	2	319,689	116,686,485	13	1	48
093	Isle of Wight County	6	306,400	111,836,000	13	2	43
093	Isle of Wight County	7	265,584	96,938,160	13	3	38
093	Isle of Wight County	8	14,103	5,147,595	13	4	43
093	Isle of Wight County	9	167,796	61,245,540	13	5	12.9

VDOT also provided adjustment factors to convert average annual daily VMT to an average ozone season day (ADJFACOS), an average ozone season weekday (ADJFACWD), and an average monthly weekday. For the annual inventory, the monthly adjustment factors were averaged to calculate road-specific adjustment factors for each season; winter (ADJFACWIN); spring (ADJFACSPR); summer (ADJFACSUM); and fall (ADJFACFAL). These factors are provided in Table 3.2-2 and Table 3.2-3 below.

Table 3.2-2			
Mobile Source Adjustment Factors			
ROADFHWA	ROADSCC	ADJFACOS	ADJFACWD
1	110	1.137	1.185833
2	130	1.061	1.027933
6	150	1.012	1.065833
7	170	1.042	1.126167
8	190	1.042	1.126167
9	210	1.057	1.057933
11	230	1.137	1.185833
12	250	1.097	1.124233
14	270	1.065	1.098467
16	290	1.027	1.131600
17	310	1.042	1.126167
19	330	1.040	1.135133

Table 3.2-3					
Mobile Source Adjustment Factors					
ROADFHWA	ROADSCC	ADJFACWIN	ADJFACSPR	ADJFACSUM	ADJFACFAL
1	110	0.86775	0.9655	1.09394	0.954566667
2	130	0.8935	1.0113	1.03998	0.996833333
6	150	0.9789	1.0353	1.01116	0.971933333
7	170	0.93165	1.01495	1.03886	0.970866667
8	190	0.93165	1.01495	1.03886	0.970866667
9	210	0.89605	1.01235	1.04046	0.993833333
11	230	0.86775	0.9655	1.09394	0.954566667

Table 3.2-3					
Mobile Source Adjustment Factors					
ROADFHWA	ROADSCC	ADJFACWIN	ADJFACSPR	ADJFACSUM	ADJFACFAL
12	250	0.88245	0.98565	1.06846	0.973866667
14	270	0.92935	1.0058	1.05198	0.9566
16	290	0.9522	1.0284	1.03216	0.959466667
17	310	0.93165	1.01495	1.03886	0.970866667
19	330	0.93635	1.0153	1.03866	0.967833333

In addition, VDOT provided VMT mix data for each road type within the thirteen jurisdictions of the nonattainment area. This data is provided in Table 3.2-4. Each value represents the average fractional percentage of each vehicle type that travels on each road type.

A sample Mobile 6.2 input file and output file for the ozone-season weekday scenario are provided in Appendix A. A sample Mobile 6.2 input file and output file for the 2002 annual scenario are provided in Appendix B.

3.3 Mobile Source QA/QC

In order to provide data of sufficient quality to meet the requirements of emission inventory guidelines established by USEPA, certain quality assurance measures were implemented as part of the inventory development process. Data accuracy and reasonableness were addressed. To ensure the reasonableness of estimates, emissions were compared to the USEPA generated 2002 NEI. Emission estimates were calculated using the latest version of USEPA's Mobile model and documented using acceptable methods . Emission values were verified by replicating calculations and by generating multiple model runs to ensure that calculations were performed correctly. To ensure that emission estimates were representative of activities for specific jurisdictions, both annual and daily emissions were generated by modeling locality specific data obtained from various sources as noted previously, including local airports and other state agencies (Virginia Department of Motor Vehicles, Virginia Department of Transportation).

Table 3.2-4												
Mobile Source VMT Mix Data												
ROADSCC	110	130	150	170	190	210	230	250	270	290	310	330
LDV	0.48564	0.43855	0.46912	0.48076	0.46669	0.48821	0.48761	0.49028	0.49984	0.49739	0.4973	0.50791
LDT1	0.0762	0.06881	0.0736	0.07543	0.07322	0.0766	0.0765	0.07693	0.07842	0.07804	0.07803	0.07969
LDT2	0.25366	0.22907	0.24503	0.2511	0.24376	0.25501	0.25469	0.25609	0.26108	0.25979	0.25975	0.26529
LDT3	0.07727	0.06978	0.07464	0.07649	0.07425	0.07768	0.07758	0.07801	0.07953	0.07914	0.07912	0.08081
LDT4	0.03553	0.03209	0.03432	0.03517	0.03414	0.03572	0.03567	0.03587	0.03657	0.03639	0.03638	0.03716
HDV2B	0.02249	0.05197	0.03271	0.02468	0.03313	0.01885	0.02122	0.01978	0.01345	0.01465	0.01456	0.00777
HDV3	0.00223	0.00516	0.00325	0.00245	0.00329	0.00187	0.00211	0.00196	0.00134	0.00145	0.00144	0.00077
HDV4	0.00174	0.00402	0.00253	0.00191	0.00256	0.00146	0.00164	0.00153	0.00104	0.00113	0.00113	0.0006
HDV5	0.00131	0.00304	0.00191	0.00144	0.00194	0.0011	0.00124	0.00116	0.00079	0.00086	0.00085	0.00045
HDV6	0.00493	0.01139	0.00717	0.00541	0.00726	0.00413	0.00465	0.00434	0.00295	0.00321	0.00319	0.0017
HDV7	0.00585	0.01353	0.00851	0.00642	0.00862	0.00491	0.00552	0.00515	0.0035	0.00381	0.00379	0.00202
HDV8A	0.00642	0.01484	0.00934	0.00705	0.00946	0.00538	0.00606	0.00565	0.00384	0.00418	0.00416	0.00222

Table 3.2-4												
Mobile Source VMT Mix Data												
ROADSCC	**110**	**130**	**150**	**170**	**190**	**210**	**230**	**250**	**270**	**290**	**310**	**330**
HDV8B	0.02287	0.05287	0.03327	0.02511	0.03371	0.01917	0.02159	0.02012	0.01369	0.01491	0.01481	0.00791
HDBS	0.00113	0.00262	0.00165	0.00124	0.00167	0.00095	0.00107	0.001	0.00068	0.00074	0.00073	0.00039
HDBT	0.00052	0.0012	0.00076	0.00057	0.00077	0.00044	0.00049	0.00046	0.00031	0.00034	0.00034	0.00018
MC	0.00221	0.00106	0.00219	0.00477	0.00553	0.00852	0.00236	0.00167	0.00297	0.00397	0.00442	0.00513

Appendix A
A-1 Sample Ozone-Season Weekday Mobile 6.2 Input File

```
MOBILE6 INPUT FILE :
>
>  HAMPTON ROADS 8-HR NONATTAINMENT AREA
>  2002 MOBILE SOURCE EMISSIONS INCLUDING PM2.5
>  RFG, NLEV, AND NO REFUELING EMISSIONS
>  2002 VMT, 2002 REG DATA
>  2002 VMT MIX, 2002 SPEEDS
>  NO RFG IN GLOUCESTER AND ISLE OF WIGHT
>  HOURLY TEMPERATURE, HOURLY HUMIDITY, AVERAGE BAROMETRIC PRESSURE
>

REPORT FILE         : C:\02SIP\HAMPTON\2002\HAMP02.OUT
DATABASE OUTPUT     :
WITH FIELDNAMES     :
AGGREGATED OUTPUT   :
EMISSIONS TABLE     : C:\02SIP\HAMPTON\2002\HAMP02.TXT   REPLACE
PARTICULATES        : SO4 OCARBON ECARBON GASPM LEAD SO2 NH3 BRAKE TIRE


RUN DATA            :
EXPRESS HC AS VOC   :
REG DIST            : C:\MOBILE62\HAMPTON\2002\CHESA02.RDT
NO REFUELING        :
94+ LDG IMP         : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                       85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM        : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP            : 6.7
OXYGENATED FUELS    : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD     : CHESAPEAKE, ROADSCC 230, 55.64 MPH
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
VMT FRACTIONS       :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED       : 55.64 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY   : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                       49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES     : 30.004
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.5
DIESEL SULFUR       : 357

SCENARIO RECORD     : CHESAPEAKE, ROADSCC 250, 56.47 MPH
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
VMT FRACTIONS       :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
```

```
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 56.47 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : CHESAPEAKE, ROADSCC 270, 45.35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 45.35 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : CHESAPEAKE, ROADSCC 290, 42.39 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 42.39 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : CHESAPEAKE, ROADSCC 310, 20.4 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 20.4 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : CHESAPEAKE, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
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VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\HAMPT02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM       : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 6.7
OXYGENATED FUELS   : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD    : HAMPTON, ROADSCC 230, 55.17 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 55.17 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : HAMPTON, ROADSCC 250, 55.0 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 55.0 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : HAMPTON, ROADSCC 270, 41.67 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
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0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 41.67 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : HAMPTON, ROADSCC 290, 39.58 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 39.58 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : HAMPTON, ROADSCC 310, 25.6 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 25.6 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : HAMPTON, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\NEWPO02.RDT
```

```
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM       : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 6.7
OXYGENATED FUELS   : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD    : NEWPORT NEWS, ROADSCC 230, 55.45 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 55.45 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : NEWPORT NEWS, ROADSCC 270, 42.63 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 42.63 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : NEWPORT NEWS, ROADSCC 290, 39.62 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 39.62 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : NEWPORT NEWS, ROADSCC 310, 17.7 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
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VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 17.7 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : NEWPORT NEWS, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\NORFO02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM       : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 6.7
OXYGENATED FUELS   : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD    : NORFOLK, ROADSCC 230, 55.12 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 55.12 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : NORFOLK, ROADSCC 250, 54.98 MPH
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CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 54.98 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : NORFOLK, ROADSCC 270, 41.72 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 41.72 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : NORFOLK, ROADSCC 290, 37.49 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 37.49 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : NORFOLK, ROADSCC 310, 11.6 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 11.6 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : NORFOLK, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
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EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\POQUO02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM       : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 6.7
OXYGENATED FUELS   : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD    : POQUOSON, ROADSCC 290, 43.95 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 43.95 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : POQUOSON, ROADSCC 310, 35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 35 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357
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SCENARIO RECORD    : POQUOSON, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\PORTS02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM       : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 6.7
OXYGENATED FUELS   : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 230, 55 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 55 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 250, 55.3 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 55.3 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
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DIESEL SULFUR      : 357

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 270, 42.89 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 42.89 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 290, 38.98 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 38.98 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 310, 23.0 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 23.0 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357
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END OF RUN          :


EXPRESS HC AS VOC   :
REG DIST            : C:\MOBILE62\HAMPTON\2002\SUFFO02.RDT
NO REFUELING        :
94+ LDG IMP         : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM        : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP            : 6.7
OXYGENATED FUELS    : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD     : SUFFOLK, ROADSCC 130, 49.68 MPH
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
VMT FRACTIONS       :
0.43855 0.06881 0.22907 0.06978 0.03209 0.05197 0.00516 0.00402
0.00304 0.01139 0.01353 0.01484 0.05287 0.00262 0.00120 0.00106
AVERAGE SPEED       : 49.68 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY   : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                      49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3

BAROMETRIC PRES     : 30.004
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.5
DIESEL SULFUR       : 357

SCENARIO RECORD     : SUFFOLK, ROADSCC 150, 43.73 MPH
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
VMT FRACTIONS       :
0.46912 0.07360 0.24503 0.07464 0.03432 0.03271 0.00325 0.00253
0.00191 0.00717 0.00851 0.00934 0.03327 0.00165 0.00076 0.00219
AVERAGE SPEED       : 43.73 ARTERIAL
RELATIVE HUMIDITY   : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                      49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES     : 30.004
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.5
DIESEL SULFUR       : 357

SCENARIO RECORD     : SUFFOLK, ROADSCC 170, 40.9 MPH
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
VMT FRACTIONS       :
0.48076 0.07543 0.25110 0.07649 0.03517 0.02468 0.00245 0.00191
0.00144 0.00541 0.00642 0.00705 0.02511 0.00124 0.00057 0.00477
AVERAGE SPEED       : 40.9 ARTERIAL
RELATIVE HUMIDITY   : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                      49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES     : 30.004
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PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : SUFFOLK, ROADSCC 190, 40.5 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7

VMT FRACTIONS      :
0.46669 0.07322 0.24376 0.07425 0.03414 0.03313 0.00329 0.00256
0.00194 0.00726 0.00862 0.00946 0.03371 0.00167 0.00077 0.00553
AVERAGE SPEED      : 40.5 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : SUFFOLK, ROADSCC 210, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48821 0.07660 0.25501 0.07768 0.03572 0.01885 0.00187 0.00146
0.00110 0.00413 0.00491 0.00538 0.01917 0.00095 0.00044 0.00852
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : SUFFOLK, ROADSCC 230, 58 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 58 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : SUFFOLK, ROADSCC 250, 58 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 58 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
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PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : SUFFOLK, ROADSCC 270, 49.68 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 49.68 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : SUFFOLK, ROADSCC 290, 43.73 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 43.73 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : SUFFOLK, ROADSCC 310, 28.4 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :

0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 28.4 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : SUFFOLK, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
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PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\VIRGI02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM       : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 6.7
OXYGENATED FUELS   : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 230, 55.12 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 55.12 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 250, 55 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
AVERAGE SPEED      : 55 FREEWAY 92.0 0.0 0.0 8.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 270, 41.45 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 41.45 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
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                    49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 290, 39.69 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 39.69 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 310, 35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 35 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\WILLI02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
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FUEL PROGRAM       : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 6.7
OXYGENATED FUELS   : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD    : WILLIAMSBURG, ROADSCC 250, 57.08 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 57.08 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : WILLIAMSBURG, ROADSCC 270, 45.98 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 45.98 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : WILLIAMSBURG, ROADSCC 290, 39.44 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 39.44 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : WILLIAMSBURG, ROADSCC 310, 25.0 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 25.0 ARTERIAL
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RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : WILLIAMSBURG, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\JAMES02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM       : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 6.7
OXYGENATED FUELS   : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD    : JAMES CITY, ROADSCC 110, 57.43 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48564 0.07620 0.25366 0.07727 0.03553 0.02249 0.00223 0.00174
0.00131 0.00493 0.00585 0.00642 0.02287 0.00113 0.00052 0.00221
AVERAGE SPEED      : 57.43 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : JAMES CITY, ROADSCC 150, 45.28 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.46912 0.07360 0.24503 0.07464 0.03432 0.03271 0.00325 0.00253
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0.00191 0.00717 0.00851 0.00934 0.03327 0.00165 0.00076 0.00219
AVERAGE SPEED      : 45.28 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : JAMES CITY, ROADSCC 170, 36.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48076 0.07543 0.25110 0.07649 0.03517 0.02468 0.00245 0.00191
0.00144 0.00541 0.00642 0.00705 0.02511 0.00124 0.00057 0.00477
AVERAGE SPEED      : 36.9 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : JAMES CITY, ROADSCC 190, 35.1 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.46669 0.07322 0.24376 0.07425 0.03414 0.03313 0.00329 0.00256
0.00194 0.00726 0.00862 0.00946 0.03371 0.00167 0.00077 0.00553
AVERAGE SPEED      : 35.1 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : JAMES CITY, ROADSCC 210, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48821 0.07660 0.25501 0.07768 0.03572 0.01885 0.00187 0.00146
0.00110 0.00413 0.00491 0.00538 0.01917 0.00095 0.00044 0.00852
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : JAMES CITY, ROADSCC 230, 57.43 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
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AVERAGE SPEED      : 57.43 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : JAMES CITY, ROADSCC 250, 56.83 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 56.83 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : JAMES CITY, ROADSCC 270, 48.52 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 48.52 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : JAMES CITY, ROADSCC 290, 45.28 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 45.28 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : JAMES CITY, ROADSCC 310, 35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 35 ARTERIAL
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RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : JAMES CITY, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\YORK02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM       : 4
 150  149  129  120 120  90  30  30
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 6.7
OXYGENATED FUELS   : 1.00 0.00 0.021 0.00 1

SCENARIO RECORD    : YORK, ROADSCC 110, 57.99 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48564 0.07620 0.25366 0.07727 0.03553 0.02249 0.00223 0.00174
0.00131 0.00493 0.00585 0.00642 0.02287 0.00113 0.00052 0.00221
AVERAGE SPEED      : 57.99 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : YORK, ROADSCC 150, 42.23 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.46912 0.07360 0.24503 0.07464 0.03432 0.03271 0.00325 0.00253
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0.00191 0.00717 0.00851 0.00934 0.03327 0.00165 0.00076 0.00219
AVERAGE SPEED      : 42.23 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : YORK, ROADSCC 170, 32.3 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48076 0.07543 0.25110 0.07649 0.03517 0.02468 0.00245 0.00191
0.00144 0.00541 0.00642 0.00705 0.02511 0.00124 0.00057 0.00477
AVERAGE SPEED      : 32.3 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : YORK, ROADSCC 210, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48821 0.07660 0.25501 0.07768 0.03572 0.01885 0.00187 0.00146
0.00110 0.00413 0.00491 0.00538 0.01917 0.00095 0.00044 0.00852
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : YORK, ROADSCC 230, 57.99 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 57.99 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : YORK, ROADSCC 250, 56.70 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
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AVERAGE SPEED      : 56.70 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : YORK, ROADSCC 270, 48.46 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 48.46 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : YORK, ROADSCC 290, 42.23 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 42.23 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : YORK, ROADSCC 310, 35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 35 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : YORK, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
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RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :



EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\GLOUC02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM       : 1
FUEL RVP           : 8.4
SEASON             : 1

SCENARIO RECORD    : GLOUCESTER, ROADSCC 130, 59 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.43855 0.06881 0.22907 0.06978 0.03209 0.05197 0.00516 0.00402
0.00304 0.01139 0.01353 0.01484 0.05287 0.00262 0.00120 0.00106
AVERAGE SPEED      : 59 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : GLOUCESTER, ROADSCC 150, 50 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.46912 0.07360 0.24503 0.07464 0.03432 0.03271 0.00325 0.00253
0.00191 0.00717 0.00851 0.00934 0.03327 0.00165 0.00076 0.00219
AVERAGE SPEED      : 50 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : GLOUCESTER, ROADSCC 170, 35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48076 0.07543 0.25110 0.07649 0.03517 0.02468 0.00245 0.00191
0.00144 0.00541 0.00642 0.00705 0.02511 0.00124 0.00057 0.00477
AVERAGE SPEED      : 35 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
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                    49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : GLOUCESTER, ROADSCC 190, 37 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.46669 0.07322 0.24376 0.07425 0.03414 0.03313 0.00329 0.00256
0.00194 0.00726 0.00862 0.00946 0.03371 0.00167 0.00077 0.00553
AVERAGE SPEED      : 37 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : GLOUCESTER, ROADSCC 210, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48821 0.07660 0.25501 0.07768 0.03572 0.01885 0.00187 0.00146
0.00110 0.00413 0.00491 0.00538 0.01917 0.00095 0.00044 0.00852
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : GLOUCESTER, ROADSCC 270, 50 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 50 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : GLOUCESTER, ROADSCC 310, 27 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 27 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
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BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : GLOUCESTER, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\ISLEW02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
HOURLY TEMPERATURES: 71.77 75.20 77.80 81.07 83.04 84.34 85.79 86.59 87.40 87.27 87.60 87.01
                     85.51 83.21 79.39 77.90 77.02 75.38 73.31 72.91 72.71 71.90 71.20 70.73
FUEL PROGRAM       : 1
FUEL RVP           : 8.4
SEASON             : 1

SCENARIO RECORD    : ISLE OF WIGHT, ROADSCC 130, 48 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.43855 0.06881 0.22907 0.06978 0.03209 0.05197 0.00516 0.00402
0.00304 0.01139 0.01353 0.01484 0.05287 0.00262 0.00120 0.00106
AVERAGE SPEED      : 48 FREEWAY 92.0 0.0 0.0 8.0
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : ISLE OF WIGHT, ROADSCC 150, 43 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.46912 0.07360 0.24503 0.07464 0.03432 0.03271 0.00325 0.00253
0.00191 0.00717 0.00851 0.00934 0.03327 0.00165 0.00076 0.00219
AVERAGE SPEED      : 43 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
```

```
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : ISLE OF WIGHT, ROADSCC 170, 38 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48076 0.07543 0.25110 0.07649 0.03517 0.02468 0.00245 0.00191
0.00144 0.00541 0.00642 0.00705 0.02511 0.00124 0.00057 0.00477
AVERAGE SPEED      : 38 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : ISLE OF WIGHT, ROADSCC 190, 43 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.46669 0.07322 0.24376 0.07425 0.03414 0.03313 0.00329 0.00256
0.00194 0.00726 0.00862 0.00946 0.03371 0.00167 0.00077 0.00553
AVERAGE SPEED      : 43 ARTERIAL
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

SCENARIO RECORD    : ISLE OF WIGHT, ROADSCC 210, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
VMT FRACTIONS      :
0.48821 0.07660 0.25501 0.07768 0.03572 0.01885 0.00187 0.00146
0.00110 0.00413 0.00491 0.00538 0.01917 0.00095 0.00044 0.00852
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
RELATIVE HUMIDITY  : 83.9 78.1 72.7 63.0 58.5 54.5 50.0 48.9 46.6 46.0 44.7 46.7
                     49.1 55.9 69.0 73.3 74.5 78.1 79.8 80.7 81.7 78.1 82.8 84.3
BAROMETRIC PRES    : 30.004
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 357

END OF RUN         :
```

Appendix A
A-2 Sample Ozone-Season Weekday Mobile 6.2 Output File

```
***************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                              *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 1).            *
***************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\CHESA02.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:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 230, 55.64 MPH
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 55.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

```
* Reading Ammonia (NH3) Basic Emissiion 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 C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4868    0.3310    0.1117              0.0194    0.0008    0.0017    0.0462    0.0024    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.148     0.986     1.629     1.148     0.739    0.629     0.597     0.390      2.44     1.107
    Composite CO  :     17.76     18.31     25.77     20.19     11.34    1.550     1.137     2.265     13.95    17.945
    Composite NOX :      1.184     1.235     1.513     1.306     5.557    1.927     1.865    19.863      1.43     2.188
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 250, 56.47 MPH
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
                User supplied VMT mix.
  M582 Warning:
             The user supplied freeway average speed of 56.5
             will be used for all hours of the day. 100% of VMT
             has been assigned to a fixed combination of freeways
             and freeway ramps for all hours of the day and all
              vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
```

```
                Nominal Fuel RVP:   6.7 psi
                   Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4895    0.3329    0.1123              0.0181    0.0008    0.0017    0.0431    0.0017    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.145     0.983     1.623     1.144     0.737    0.628     0.596     0.388      2.50     1.106
     Composite CO  :     17.90     18.44     25.90     20.32     11.61     1.560     1.145     2.297     15.11    18.145
     Composite NOX :      1.186     1.239     1.517     1.309     5.590    1.981     1.918    20.288      1.45     2.146
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 270, 45.35 MPH
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 45.3
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

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

```
   VMT Distribution:    0.4991    0.3393    0.1145             0.0123    0.0008    0.0018    0.0293    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.189     1.025     1.690     1.193     0.804    0.657     0.628     0.427      2.20     1.165
    Composite CO  :     15.15     15.90     23.46     17.81      9.11    1.486     1.083     2.048      9.37    15.844
    Composite NOX :      1.133     1.162     1.442     1.233     5.133    1.416     1.365    12.960      1.18     1.575
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 290, 42.39 MPH
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 42.4
           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 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
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  70.7 (F)
             Maximum Temperature:  87.6 (F)
               Minimum Rel. Hum.:  44.7 (%)
               Maximum Rel. Hum.:  84.3 (%)
             Barometric Pressure: 30.00 (inches Hg)
                Nominal Fuel RVP:   6.7 psi
                   Weathered RVP:   6.5 psi
             Fuel Sulfur Content:  129. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4966    0.3377    0.1139             0.0134    0.0008    0.0018    0.0319    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.206     1.040     1.709     1.209     0.841    0.673     0.645     0.448      2.23     1.181
    Composite CO  :     14.71     15.45     23.03     17.36      9.19    1.502     1.097     2.105      9.72    15.378
    Composite NOX :      1.126     1.151     1.432     1.222     5.028    1.367     1.317    12.567      1.16     1.587
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 310, 20.4 MPH
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 20.4
```

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1139              0.0133    0.0008    0.0018    0.0317    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.496     1.299     2.080     1.496     1.589     0.952     0.946     0.816      2.89     1.481
     Composite CO  :     13.87     14.19     22.40     16.26     17.24     2.107     1.602     4.130     17.13    14.672
     Composite NOX :      1.283     1.263     1.565     1.339     4.213     1.458     1.406    13.296      0.98     1.727
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 330, 12.9 MPH
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5071    0.3448    0.1163              0.0071    0.0008    0.0018    0.0169    0.0051    1.0000
  ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :     1.818     1.593     2.479     1.816     2.411     1.172     1.183     1.106      3.57     1.817
     Composite CO  :     11.59     12.97     21.65     15.16     27.32     2.776     2.159     6.370     25.06    13.307
     Composite NOX :     1.149     1.099     1.391     1.173     3.933     1.734     1.676    13.309      0.92     1.386
  ------------------------------------------------------------------------------------------------------------------------
****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                               *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 2).             *
****************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\HAMPT02.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)
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 230, 55.17 MPH
* File 1, Run 2, Scenario 1.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 55.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.


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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:              <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4867    0.3309    0.1117              0.0198    0.0009    0.0018    0.0458    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.346     1.279     2.494     1.586     1.093     0.698     0.776     0.449      2.41     1.407
     Composite CO  :      19.26     21.04     35.60     24.71     16.34     1.647     1.436     2.721     13.29     20.797
     Composite NOX :      1.285     1.348     1.777     1.456     5.892     2.048     2.045    20.240      1.42     2.322
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 250, 55.0 MPH
* File 1, Run 2, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4893    0.3327    0.1124              0.0185    0.0009    0.0018    0.0427    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.346     1.280     2.495     1.587     1.094    0.698     0.776     0.449      2.40     1.411
     Composite CO  :     19.23     21.01     35.57     24.68     16.25     1.645     1.434     2.713     13.05    20.840
     Composite NOX :      1.285     1.347     1.776     1.455     5.885    2.035     2.032    20.143      1.41     2.253
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 270, 41.67 MPH
* File 1, Run 2, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 41.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

```
 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
                Minimum Temperature:  70.7 (F)
                Maximum Temperature:  87.6 (F)
                  Minimum Rel. Hum.:  44.7 (%)
                  Maximum Rel. Hum.:  84.3 (%)
                Barometric Pressure: 30.00 (inches Hg)
                   Nominal Fuel RVP:   6.7 psi
                      Weathered RVP:   6.5 psi
                Fuel Sulfur Content:  129. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4989    0.3392    0.1146              0.0126    0.0010    0.0018    0.0290    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.420     1.357     2.631     1.678     1.244     0.750     0.835     0.521      2.25     1.510
     Composite CO  :      16.09     18.03     32.71     21.73     13.47     1.608     1.402     2.569      9.83    18.164
     Composite NOX :      1.229     1.262     1.696     1.371     5.320     1.464     1.459    12.999      1.16     1.687
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 290, 39.58 MPH
* File 1, Run 2, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 39.6
            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 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
  M 48 Warning:
               there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
                Minimum Temperature:  70.7 (F)
                Maximum Temperature:  87.6 (F)
                  Minimum Rel. Hum.:  44.7 (%)
                  Maximum Rel. Hum.:  84.3 (%)
                Barometric Pressure: 30.00 (inches Hg)
                   Nominal Fuel RVP:   6.7 psi
                      Weathered RVP:   6.5 psi
                Fuel Sulfur Content:  129. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
```

```
                Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3375    0.1140              0.0137    0.0010    0.0018    0.0316    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.435     1.371     2.654     1.695     1.287     0.766     0.852     0.543      2.27     1.524
     Composite CO  :      15.74     17.67     32.37     21.38     13.66     1.626     1.417     2.639     10.14     17.781
     Composite NOX :      1.225     1.254     1.689     1.363     5.234     1.430     1.426    12.739      1.15     1.706
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 310, 25.6 MPH
* File 1, Run 2, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 25.6
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4963    0.3375    0.1140              0.0136    0.0010    0.0018    0.0314    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.617     1.546     2.956     1.902     1.845     0.939     1.049     0.783      2.66     1.726
     Composite CO  :      14.90     16.64     31.93     20.50     19.71     1.958     1.713     3.939     14.33     17.112
     Composite NOX :      1.308     1.308     1.757     1.421     4.687     1.462     1.458    12.988      1.04     1.771
  ---------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 330, 12.9 MPH
* File 1, Run 2, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5069    0.3447    0.1164              0.0072    0.0010    0.0019    0.0168    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.124     2.041     3.738     2.470     3.418    1.291     1.448     1.271      3.57     2.284
     Composite CO  :     13.20     16.00     32.67     20.21     39.92     2.923     2.573     7.716     25.05    16.564
     Composite NOX :      1.259     1.212     1.665     1.326     4.184    1.872     1.869    14.104      0.92     1.526
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 3).          *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\NEWPO02.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)
```

```
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NEWPORT NEWS, ROADSCC 230, 55.45 MPH
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 55.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                      Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                 Reformulated Gas:  No

    Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
    Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                           Alcohol Blend RVP Waiver: No


        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4868    0.3310    0.1117              0.0196    0.0008    0.0018    0.0460    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
  Composite Emission Factors (g/mi):
      Composite VOC :      1.153     1.091     1.969     1.312     0.864    0.638     0.663     0.409      2.31     1.185
      Composite CO  :     17.38     19.09     29.43     21.70     13.29     1.564     1.250     2.426     13.41    18.470
      Composite NOX :      1.155     1.251     1.592     1.337     5.628    1.928     1.928    19.544      1.41     2.172
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NEWPORT NEWS, ROADSCC 270, 42.63 MPH
* File 1, Run 3, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
```

```
             User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 42.6
           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 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
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  70.7 (F)
             Maximum Temperature:  87.6 (F)
               Minimum Rel. Hum.:  44.7 (%)
               Maximum Rel. Hum.:  84.3 (%)
             Barometric Pressure: 30.00 (inches Hg)
                Nominal Fuel RVP:   6.7 psi
                   Weathered RVP:   6.5 psi
             Fuel Sulfur Content:  129. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4990    0.3393    0.1145              0.0124    0.0009    0.0018    0.0292    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.209     1.150     2.067     1.381     0.974    0.681     0.711     0.468      2.13     1.264
     Composite CO  :     14.47     16.30     26.77     18.94     10.82     1.517     1.209     2.256      9.46    16.049
     Composite NOX :      1.100     1.169     1.513     1.256     5.108    1.381     1.375    12.529      1.15     1.555
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NEWPORT NEWS, ROADSCC 290, 39.62 MPH
* File 1, Run 3, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
             User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 39.6
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1140              0.0135    0.0009    0.0018    0.0318    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.227     1.168     2.093     1.401     1.023     0.700     0.733     0.495      2.16     1.282
     Composite CO  :      14.01     15.82     26.30     18.46     11.01     1.540     1.229     2.340      9.89    15.559
     Composite NOX :      1.094     1.157     1.502     1.244     4.991     1.334     1.328    12.157      1.14     1.567
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NEWPORT NEWS, ROADSCC 310, 17.7 MPH
* File 1, Run 3, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 17.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
```

```
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3376    0.1139              0.0134    0.0009    0.0018    0.0316    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.594     1.531     2.647     1.812     2.084     1.027     1.100     0.945      2.94     1.683
     Composite CO  :     14.18     15.53     27.11     18.45     23.58     2.311     1.893     5.105     18.85    15.936
     Composite NOX :      1.311     1.332     1.710     1.428     4.181     1.546     1.542    13.865      0.94     1.798
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NEWPORT NEWS, ROADSCC 330, 12.9 MPH
* File 1, Run 3, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
```

Alcohol Blend RVP Waiver: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.5070	0.3448	0.1164		0.0072	0.0009	0.0018	0.0169	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.818	1.749	2.969	2.057	2.762	1.185	1.276	1.161	3.42	1.930
Composite CO :	11.49	13.97	25.90	16.98	32.21	2.796	2.311	6.846	24.66	14.135
Composite NOX :	1.123	1.117	1.475	1.207	3.988	1.746	1.744	13.454	0.90	1.391

```
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 4).           *
**************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\NORFO02.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)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 230, 55.12 MPH
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 55.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
```

```
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4867    0.3310    0.1117              0.0195    0.0009    0.0018    0.0461    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.222     1.136     1.992     1.352     0.870     0.656     0.692     0.411      2.27     1.237
     Composite CO  :     18.09     19.64     29.72     22.19     13.13     1.586     1.292     2.402     12.89    19.029
     Composite NOX :      1.208     1.293     1.626     1.377     5.655     1.975     1.947    19.851      1.40     2.231
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 250, 54.98 MPH
* File 1, Run 4, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
```

```
              GVWR:               <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4894    0.3328    0.1123              0.0182    0.0009    0.0018    0.0429    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.223     1.137     1.993     1.353     0.870    0.656     0.692     0.412      2.26     1.240
     Composite CO  :     18.07     19.62     29.70     22.16     13.07     1.584     1.291     2.396     12.69    19.074
     Composite NOX :      1.208     1.293     1.625     1.377     5.650    1.965     1.937    19.774      1.40     2.163
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 270, 41.72 MPH
* File 1, Run 4, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 41.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                      Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
    Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                           Alcohol Blend RVP Waiver: No

         Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:               <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4989    0.3393    0.1145              0.0124    0.0009    0.0018    0.0292    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.288     1.203     2.099     1.429     0.994    0.705     0.748     0.477      2.12     1.326
     Composite CO  :     15.03     16.71     26.90     19.28     10.84     1.548     1.259     2.269      9.54    16.482
     Composite NOX :      1.152     1.209     1.544     1.293     5.110    1.415     1.390    12.676      1.14     1.603
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 290, 37.49 MPH
* File 1, Run 4, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
```

```
  M583 Warning:
           The user supplied arterial average speed of 37.5
           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 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
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  70.7 (F)
             Maximum Temperature:  87.6 (F)
               Minimum Rel. Hum.:  44.7 (%)
               Maximum Rel. Hum.:  84.3 (%)
             Barometric Pressure: 30.00 (inches Hg)
                Nominal Fuel RVP:   6.7 psi
                   Weathered RVP:   6.5 psi
             Fuel Sulfur Content:  129. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1140              0.0135    0.0009    0.0018    0.0318    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.317     1.230     2.138     1.459     1.074     0.737     0.783     0.520      2.18     1.354
     Composite CO  :     14.38     16.04     26.25     18.62     11.34     1.593     1.298     2.426     10.26     15.820
     Composite NOX :      1.146     1.195     1.532     1.280     4.951     1.368     1.344    12.316      1.12     1.614
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 310, 11.6 MPH
* File 1, Run 4, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 11.6
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3375    0.1139              0.0134    0.0009    0.0018    0.0316    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.085     1.991     3.252     2.309     3.001    1.258     1.370     1.218      3.61     2.176
     Composite CO  :     17.16     18.06     30.38     21.17     34.81     2.978     2.506     7.326     27.24    18.904
     Composite NOX :      1.612     1.594     1.996     1.696     3.986    1.865     1.838    16.205      0.91     2.140
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 330, 12.9 MPH
* File 1, Run 4, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
```

```
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No


   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5070    0.3447    0.1164              0.0071    0.0009    0.0018    0.0169    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.933     1.824     3.020     2.126     2.785    1.218     1.325     1.165      3.39     2.021
     Composite CO  :     12.13     14.53     26.16     17.47     32.13     2.833     2.380     6.817     24.57    14.681
     Composite NOX :      1.179     1.159     1.508     1.247     4.017    1.809     1.782    13.580      0.90     1.440
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 5).          *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\POQUO02.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)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* POQUOSON, ROADSCC 290, 43.95 MPH
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 44.0
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3376    0.1140              0.0137    0.0010    0.0018    0.0316    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.520     1.288     2.439     1.578     1.266     0.811     0.768     0.517      2.36     1.513
     Composite CO  :      17.44     17.99     31.28     21.35     14.04     1.694     1.303     2.558      9.83    18.615
     Composite NOX :      1.274     1.260     1.663     1.362     5.439     1.548     1.456    13.280      1.19     1.750
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* POQUOSON, ROADSCC 310, 35 MPH
* File 1, Run 5, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 35.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
```

```
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4963    0.3375    0.1140              0.0136    0.0010    0.0018    0.0314    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.589     1.350     2.535     1.649     1.482     0.889     0.847     0.619      2.51     1.587
     Composite CO  :     15.98     16.50     29.87     19.88     15.45     1.795     1.388     2.947     11.41    17.264
     Composite NOX :      1.262     1.231     1.638     1.334     5.082     1.441     1.354    12.455      1.15     1.697
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* POQUOSON, ROADSCC 330, 12.9 MPH
* File 1, Run 5, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

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

```
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5069    0.3447    0.1164              0.0073    0.0010    0.0018    0.0167    0.0051    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.271     1.968     3.511     2.358     3.582     1.411     1.378     1.311      3.74     2.310
     Composite CO  :     14.27     15.52     30.64     19.34     42.05     3.076     2.461     7.866     25.48    16.726
     Composite NOX :      1.301     1.201     1.622     1.307     4.208     1.929     1.818    14.194      0.94     1.540
 ---------------------------------------------------------------------------------------------------------------------
****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                               *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 6).             *
****************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\PORTS02.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:
                 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)
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 230, 55 MPH
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4867    0.3309    0.1117              0.0197    0.0009    0.0018    0.0459    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.374     1.271     2.405     1.557     1.001     0.697     0.760     0.433      2.36     1.405
     Composite CO  :      19.49     20.99     34.55     24.41     14.98     1.643     1.406     2.537     12.96    20.735
     Composite NOX :      1.314     1.356     1.761     1.458     5.840     2.061     2.020    20.276      1.41     2.340
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 250, 55.3 MPH
* File 1, Run 6, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 55.3
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
```

```
                Nominal Fuel RVP:   6.7 psi

                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4893    0.3328    0.1124              0.0183    0.0009    0.0018    0.0428    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.372     1.269     2.402     1.555     1.000     0.696     0.760     0.433      2.38     1.406
     Composite CO  :     19.54     21.04     34.60     24.47     15.12     1.647     1.409     2.551     13.39     20.864
     Composite NOX :      1.315     1.357     1.762     1.460     5.853     2.083     2.042    20.442      1.42     2.284
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 270, 42.89 MPH
* File 1, Run 6, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 42.9
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

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

```
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4989    0.3392    0.1146              0.0125    0.0010    0.0018    0.0291    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.443     1.339     2.524     1.639     1.121     0.741     0.810     0.493      2.20     1.501
     Composite CO  :      16.52     18.20     31.86     21.65     12.35     1.598     1.366     2.372      9.59    18.320
     Composite NOX :      1.261     1.276     1.684     1.379     5.327     1.503     1.471    13.188      1.16     1.713
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 290, 38.98 MPH
* File 1, Run 6, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 39.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3376    0.1140              0.0136    0.0010    0.0018    0.0317    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.473     1.367     2.567     1.670     1.197     0.769     0.842     0.530      2.25     1.530
     Composite CO  :      15.87     17.55     31.25     21.01     12.70     1.632     1.396     2.496     10.18    17.660
     Composite NOX :      1.254     1.261     1.671     1.365     5.173     1.444     1.413    12.735      1.14     1.721
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 310, 23.0 MPH
* File 1, Run 6, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
```

```
           The user supplied arterial average speed of 23.0
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4963    0.3375    0.1140              0.0135    0.0010    0.0018    0.0315    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.720     1.597     2.947     1.938     1.883     0.988     1.089     0.823      2.73     1.795
     Composite CO  :     15.35     16.76     31.22     20.41     20.40     2.076     1.791     4.124     15.49    17.311
     Composite NOX :      1.380     1.351     1.780     1.459     4.556     1.530     1.497    13.393      1.01     1.836
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 330, 12.9 MPH
* File 1, Run 6, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 70.7 (F)
Maximum Temperature: 87.6 (F)
Minimum Rel. Hum.: 44.7 (%)
Maximum Rel. Hum.: 84.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 6.7 psi
Weathered RVP: 6.5 psi
Fuel Sulfur Content: 129. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Ether Blend Market Share: 1.000 Alcohol Blend Market Share: 0.000
Ether Blend Oxygen Content: 0.021 Alcohol Blend Oxygen Content: 0.000
Alcohol Blend RVP Waiver: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.5069	0.3447	0.1164		0.0072	0.0010	0.0018	0.0168	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	2.184	2.038	3.623	2.438	3.177	1.290	1.430	1.227	3.52	2.297
Composite CO :	13.41	15.97	31.51	19.89	36.80	2.920	2.541	7.216	24.92	16.493
Composite NOX :	1.290	1.221	1.647	1.328	4.152	1.896	1.858	14.027	0.92	1.542

****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 7). *
****

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\SUFFO02.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:
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)
M603 Comment:
User has disabled the calculation of REFUELING emissions.

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external

```
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 130, 49.68 MPH
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 49.7
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4377    0.2977    0.1005              0.0480    0.0008    0.0016    0.1126    0.0011    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.340     1.206     2.395     1.506     0.983     0.704     0.739     0.437      2.14     1.287
     Composite CO  :      18.00     19.05     33.04     22.58     12.77     1.589     1.307     2.271      9.15     17.753
     Composite NOX :      1.248     1.276     1.701     1.383     5.439     1.696     1.656    17.370      1.26     3.320
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 150, 43.73 MPH
* File 1, Run 7, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 43.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

    Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
    Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                           Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4683    0.3184    0.1075              0.0302    0.0009    0.0017    0.0709    0.0022    1.0000
   ---------------------------------------------------------------------------------------------------------------------
  Composite Emission Factors (g/mi):
      Composite VOC :      1.366     1.229     2.444     1.536     1.050     0.731     0.767     0.472      2.16     1.366
      Composite CO  :     16.13     17.38     31.43     20.93     12.00     1.585     1.303     2.257      9.41    17.014
      Composite NOX :      1.213     1.224     1.652     1.332     5.192     1.482     1.446    12.947      1.16     2.216
   ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 170, 40.9 MPH
* File 1, Run 7, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 40.9
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4799    0.3263    0.1102              0.0228    0.0009    0.0017    0.0535    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.385     1.247     2.472     1.556     1.096    0.749     0.788     0.496      2.19     1.408
     Composite CO  :      15.68     16.93     31.00     20.48     12.16    1.604     1.320     2.326      9.78    16.913
     Composite NOX :      1.207     1.213     1.642     1.321     5.085    1.434     1.398    12.577      1.15     1.954
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 190, 40.5 MPH
* File 1, Run 7, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 40.5
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
```

```
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4658    0.3168    0.1069              0.0306    0.0009    0.0017    0.0718    0.0055    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.388     1.249     2.476     1.559     1.103     0.752     0.791     0.500      2.19     1.391
     Composite CO  :      15.61     16.86     30.93     20.41     12.18     1.607     1.323     2.337      9.84     16.516
     Composite NOX :      1.206     1.211     1.641     1.320     5.068     1.427     1.391    12.521      1.15     2.185
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 210, 12.9 MPH
* File 1, Run 7, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4873    0.3314    0.1119              0.0174    0.0009    0.0018    0.0408    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      2.065     1.869     3.495     2.280     3.013    1.280     1.370     1.192      3.47     2.151
     Composite CO  :     12.90     14.90     30.86     18.93     35.92     2.909     2.452     6.922     24.79    15.804
     Composite NOX :      1.237     1.167     1.614     1.280     4.024    1.852     1.810    13.620      0.91     1.809
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 230, 58 MPH
* File 1, Run 7, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 58.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
    Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                           Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4867    0.3310    0.1117              0.0196    0.0009    0.0018    0.0460    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.294     1.159     2.312     1.450     0.946    0.690     0.722     0.418      2.54     1.318
     Composite CO  :     19.47     20.52     34.44     24.03     16.42     1.686     1.391     2.614     17.27    20.600
     Composite NOX :      1.274     1.316     1.741     1.423     5.786    2.278     2.230    21.848      1.49     2.378
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 250, 58 MPH
* File 1, Run 7, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 58.0
            will be used for all hours of the day. 100% of VMT
```

```
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4894    0.3328    0.1124              0.0183    0.0009    0.0018    0.0429    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.294     1.159     2.312     1.450     0.946     0.690     0.722     0.418      2.54     1.320
     Composite CO  :     19.47     20.52     34.44     24.03     16.42     1.686     1.391     2.614     17.27     20.669
     Composite NOX :      1.274     1.316     1.741     1.423     5.786     2.278     2.230    21.847      1.49     2.308
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 270, 49.68 MPH
* File 1, Run 7, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 49.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002

                            Month:  July
                         Altitude:  Low
                Minimum Temperature:  70.7 (F)
                Maximum Temperature:  87.6 (F)
                  Minimum Rel. Hum.:  44.7 (%)
                  Maximum Rel. Hum.:  84.3 (%)
                Barometric Pressure: 30.00 (inches Hg)
                   Nominal Fuel RVP:   6.7 psi
                      Weathered RVP:   6.5 psi
                Fuel Sulfur Content:  129. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4989    0.3393    0.1145              0.0124    0.0009    0.0018    0.0292    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.328     1.194     2.386     1.495     0.977    0.702     0.736     0.434      2.13     1.374
     Composite CO  :     17.07     18.33     32.33     21.86     12.32     1.572     1.292     2.212      9.01    18.683
     Composite NOX :      1.226     1.248     1.674     1.355     5.415    1.638     1.599    14.143      1.23     1.714
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 290, 43.73 MPH
* File 1, Run 7, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 43.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
                Minimum Temperature:  70.7 (F)
                Maximum Temperature:  87.6 (F)
                  Minimum Rel. Hum.:  44.7 (%)
```

```
              Maximum Rel. Hum.:  84.3 (%)
             Barometric Pressure: 30.00 (inches Hg)
                Nominal Fuel RVP:   6.7 psi
                   Weathered RVP:   6.5 psi
             Fuel Sulfur Content:  129. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1140              0.0135    0.0009    0.0018    0.0317    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.366     1.229     2.444     1.536     1.050    0.731     0.767     0.472      2.16     1.412
     Composite CO  :     16.13     17.38     31.43     20.93     12.00     1.585     1.303     2.257      9.41    17.735
     Composite NOX :      1.213     1.224     1.652     1.332     5.193    1.482     1.446    12.950      1.16     1.694
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 310, 28.4 MPH
* File 1, Run 7, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 28.4
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
```

```
              GVWR:               <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3375    0.1140              0.0135    0.0009    0.0018    0.0315    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.524     1.372     2.693     1.705     1.472    0.884     0.936     0.673      2.48     1.581
     Composite CO  :      14.53     15.65     30.09     19.29     15.94    1.845     1.529     3.173     12.99    16.301
     Composite NOX :      1.251     1.232     1.671     1.343     4.616    1.412     1.376    12.406      1.06     1.689
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 330, 12.9 MPH
* File 1, Run 7, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
    Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                           Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:               <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5070    0.3447    0.1164              0.0072    0.0009    0.0018    0.0168    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.065     1.869     3.495     2.280     3.012    1.280     1.370     1.192      3.47     2.161
     Composite CO  :      12.90     14.90     30.86     18.93     35.91    2.909     2.452     6.925     24.79    15.778
     Composite NOX :      1.237     1.167     1.614     1.280     4.023    1.852     1.810    13.624      0.91     1.485
  ---------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 8).       *
**********************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\VIRGI02.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:
                 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)
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 230, 55.12 MPH
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 55.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                   Nominal Fuel RVP:   6.7 psi
```

```
                     Weathered RVP:   6.5 psi
                Fuel Sulfur Content:  129. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4869    0.3311    0.1117              0.0194    0.0007    0.0017    0.0462    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.095     0.916     1.399     1.038     0.751    0.606     0.554     0.393      2.21     1.032
     Composite CO  :     17.20     17.52     23.02     18.90     11.50    1.509     1.056     2.259     12.76    17.104
     Composite NOX :      1.148     1.205     1.440     1.264     5.509    1.843     1.780    19.427      1.39     2.131
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 250, 55 MPH
* File 1, Run 8, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
                User supplied VMT mix.
  M582 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 a fixed combination of freeways
             and freeway ramps for all hours of the day and all
              vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
                Minimum Temperature:  70.7 (F)
                Maximum Temperature:  87.6 (F)
                  Minimum Rel. Hum.:  44.7 (%)
                  Maximum Rel. Hum.:  84.3 (%)
                Barometric Pressure: 30.00 (inches Hg)
                   Nominal Fuel RVP:   6.7 psi
                      Weathered RVP:   6.5 psi
                Fuel Sulfur Content:  129. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

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

```
   VMT Distribution:    0.4895    0.3329    0.1123             0.0181    0.0007    0.0017    0.0431    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.095     0.916     1.400     1.038     0.752     0.606     0.554     0.393      2.20     1.034
    Composite CO  :     17.18     17.50     23.00     18.88     11.46     1.508     1.055     2.254     12.59     17.146
    Composite NOX :      1.148     1.204     1.439     1.263     5.505     1.835     1.773    19.362      1.39     2.064
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 270, 41.45 MPH
* File 1, Run 8, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 41.5
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4991    0.3394    0.1145              0.0123    0.0008    0.0018    0.0293    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.150     0.967     1.469     1.093     0.865     0.654     0.605     0.459      2.06     1.102
    Composite CO  :     14.12     14.63     20.25     16.05      9.51     1.474     1.027     2.140      9.45     14.538
    Composite NOX :      1.090     1.119     1.357     1.179     4.968     1.315     1.264    12.355      1.13     1.509
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 290, 39.69 MPH
* File 1, Run 8, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
```

```
           The user supplied arterial average speed of 39.7
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4966    0.3377    0.1139              0.0134    0.0007    0.0018    0.0319    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.161     0.976     1.480     1.103     0.892     0.665     0.617     0.474      2.08     1.111
     Composite CO  :     13.84     14.34     19.97     15.76      9.61     1.488     1.039     2.189      9.70    14.230
     Composite NOX :      1.086     1.112     1.351     1.172     4.899     1.289     1.238    12.144      1.12     1.529
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 310, 35 MPH
* File 1, Run 8, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 35.0
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4966    0.3376    0.1139              0.0133    0.0007    0.0018    0.0317    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.190     1.001     1.511     1.130     0.984     0.703     0.658     0.526      2.17     1.142
     Composite CO  :      13.12     13.61     19.27     15.04     10.34     1.551     1.090     2.402     10.67    13.567
     Composite NOX :      1.080     1.099     1.340     1.160     4.726     1.260     1.209    11.900      1.10     1.508
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 330, 12.9 MPH
* File 1, Run 8, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
```

```
             Maximum Rel. Hum.:  84.3 (%)
           Barometric Pressure: 30.00 (inches Hg)
              Nominal Fuel RVP:   6.7 psi
                 Weathered RVP:   6.5 psi
           Fuel Sulfur Content:  129. ppm

           Exhaust I/M Program:  No
              Evap I/M Program:  No
                   ATP Program:  No
              Reformulated Gas:  No

  Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
  Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                         Alcohol Blend RVP Waiver: No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.5071    0.3448    0.1163              0.0071    0.0008    0.0018    0.0169    0.0051    1.0000
  ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):

    Composite VOC :      1.726     1.480     2.141     1.647     2.448     1.131     1.117     1.113      3.32     1.691
    Composite CO  :     11.13     12.21     18.69     13.85     28.14      2.726     2.056     6.411     24.40    12.468
    Composite NOX :      1.114     1.071     1.317     1.133     3.913     1.688     1.629    13.272      0.89     1.348
  ------------------------------------------------------------------------------------------------------------------------
***************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                              *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 9).            *
***************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\WILLI02.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:
                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)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* WILLIAMSBURG, ROADSCC 250, 57.08 MPH
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
           The user supplied freeway average speed of 57.1
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
```

```
            vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  70.7 (F)

              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4895    0.3329    0.1123              0.0181    0.0007    0.0018    0.0431    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------

 Composite Emission Factors (g/mi):
     Composite VOC :      1.013     0.909     1.407     1.035     0.733     0.576     0.570     0.381      1.97     0.991
     Composite CO  :     16.79     17.75     23.35     19.16     12.24     1.497     1.112     2.303     14.49     17.099
     Composite NOX :      1.102     1.197     1.436     1.257     5.539     1.919     1.934    19.927      1.40     2.064
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* WILLIAMSBURG, ROADSCC 270, 45.98 MPH
* File 1, Run 9, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 46.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4991    0.3393    0.1145              0.0123    0.0007    0.0018    0.0293    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.046     0.946     1.460     1.075     0.793     0.601     0.598     0.415      1.69     1.039
     Composite CO  :      14.10     15.25     20.95     16.69      9.39     1.413     1.042     2.018      8.21    14.813
     Composite NOX :      1.047     1.120     1.361     1.181     5.088     1.351     1.355    12.675      1.12     1.499
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* WILLIAMSBURG, ROADSCC 290, 39.44 MPH
* File 1, Run 9, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 39.4
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
```

```
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4966    0.3377    0.1139              0.0134    0.0007    0.0018    0.0319    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.078     0.977     1.499     1.108     0.879     0.636     0.638     0.465      1.75     1.071
     Composite CO  :     13.13     14.24     19.98     15.69      9.61     1.453     1.075     2.154      8.98    13.845
     Composite NOX :      1.032     1.094     1.337     1.156     4.848     1.246     1.248    11.797      1.08     1.483
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* WILLIAMSBURG, ROADSCC 310, 25.0 MPH
* File 1, Run 9, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 25.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

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

```
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4966    0.3376    0.1139              0.0133    0.0007    0.0018    0.0317    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.222     1.110     1.685     1.255     1.306     0.792     0.814     0.683      2.08     1.223
     Composite CO  :      12.31     13.18     19.21     14.70     14.18     1.787     1.355     3.286     13.15    13.108
     Composite NOX :      1.114     1.151     1.404     1.215     4.320     1.282     1.284    12.098      0.97     1.550
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* WILLIAMSBURG, ROADSCC 330, 12.9 MPH
* File 1, Run 9, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
    Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                           Alcohol Blend RVP Waiver: No

         Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                 GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.5072    0.3448    0.1163              0.0071    0.0008    0.0018    0.0169    0.0051    1.0000
   ---------------------------------------------------------------------------------------------------------------------
  Composite Emission Factors (g/mi):
      Composite VOC :      1.596     1.472     2.161     1.646     2.403     1.080     1.139     1.085      2.81     1.621
      Composite CO  :      10.45     12.15     18.76     13.82     28.02     2.668     2.095     6.280     22.95    12.101
      Composite NOX :      1.057     1.054     1.304     1.117     3.879     1.633     1.642    13.093      0.85     1.309
   ---------------------------------------------------------------------------------------------------------------------
 ************************************************************************
 * MOBILE6.2.03 (24-Sep-2003)                                           *
 * Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 10).        *
 ************************************************************************

 * Reading Registration Distributions from the following external
 * data file: C:\MOBILE62\HAMPTON\2002\JAMES02.RDT
   M 49 Warning:
```

```
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 110, 57.43 MPH
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 57.4
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4849    0.3297    0.1112              0.0209    0.0007    0.0017    0.0486    0.0022    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.101     1.019     1.833     1.224     0.955     0.629     0.637     0.425      2.83     1.122
     Composite CO  :      17.72     19.02     28.70     21.46     16.06     1.580     1.233     2.635     17.30     18.559
     Composite NOX :      1.152     1.256     1.589     1.340     5.799     2.031     2.058    21.319      1.51     2.316
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 150, 45.28 MPH
* File 1, Run 10, Scenario 2.
```

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* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 45.3
            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 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
  M 48 Warning:
               there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                      Calendar Year:  2002
                              Month:  July
                           Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
    Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                           Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4684    0.3184    0.1075              0.0303    0.0007    0.0017    0.0708    0.0022    1.0000
   ---------------------------------------------------------------------------------------------------------------------
  Composite Emission Factors (g/mi):
      Composite VOC :      1.143     1.067     1.916     1.281     1.039     0.659     0.670     0.467      2.43     1.153
      Composite CO  :     14.81     16.27     26.07     18.74     12.04     1.486     1.153     2.285      9.89    15.472
      Composite NOX :      1.094     1.174     1.509     1.259     5.283     1.385     1.397    13.187      1.21     2.148
   ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 170, 36.9 MPH
* File 1, Run 10, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 36.9
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4800    0.3263    0.1101              0.0229    0.0007    0.0017    0.0534    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.189     1.112     1.982     1.331     1.195    0.714     0.732     0.547      2.55     1.223
     Composite CO  :     13.56     14.97     24.83     17.46     12.87    1.560     1.216     2.559     11.21    14.619
     Composite NOX :      1.078     1.145     1.483     1.230     4.969    1.280     1.290    12.309      1.17     1.834
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 190, 35.1 MPH
* File 1, Run 10, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 35.1
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
```

```
                    Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4660    0.3168    0.1069              0.0307    0.0007    0.0017    0.0717    0.0055    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.201     1.123     1.998     1.344     1.241    0.730     0.750     0.571      2.60     1.224
     Composite CO  :     13.27     14.67     24.54     17.16     13.25     1.586     1.238     2.656     11.62    14.118
     Composite NOX :      1.076     1.139     1.479     1.225     4.896    1.268     1.278    12.206      1.15     2.055
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 210, 12.9 MPH
* File 1, Run 10, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
```

```
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4875    0.3314    0.1118              0.0175    0.0007    0.0017    0.0408    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.730     1.643     2.780     1.930     3.045    1.171     1.242     1.211      3.90     1.838
     Composite CO  :     11.27     13.37     24.57     16.20     36.14     2.779     2.251     7.102     26.00    13.823
     Composite NOX :      1.108     1.110     1.460     1.198     4.051    1.698     1.717    13.714      0.95     1.714
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 230, 57.43 MPH
* File 1, Run 10, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 57.4
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4869    0.3310    0.1117              0.0197    0.0007    0.0017    0.0459    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.101     1.019     1.833     1.224     0.956    0.629     0.637     0.425      2.83     1.125
     Composite CO  :     17.72     19.02     28.70     21.46     16.06     1.580     1.233     2.635     17.30    18.608
     Composite NOX :      1.152     1.256     1.589     1.340     5.799    2.031     2.058    21.319      1.51     2.256
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* JAMES CITY, ROADSCC 250, 56.83 MPH
* File 1, Run 10, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 56.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4895    0.3328    0.1123              0.0183    0.0007    0.0018    0.0428    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.103     1.022     1.837     1.228     0.955     0.629     0.637     0.425      2.78     1.128
     Composite CO  :      17.61     18.91     28.59     21.35     15.57     1.567     1.221     2.584     16.32     18.551
     Composite NOX :      1.150     1.253     1.586     1.337     5.772     1.969     1.994    20.791      1.49     2.162
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 270, 48.52 MPH
* File 1, Run 10, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 48.5
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4991    0.3393    0.1145              0.0125    0.0008    0.0018    0.0291    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.127     1.050     1.890     1.262     1.000     0.645     0.655     0.448      2.42     1.169
     Composite CO  :      15.31     16.79     26.57     19.26     12.30     1.483     1.151     2.273      9.70    16.634
     Composite NOX :      1.103     1.187     1.521     1.272     5.410     1.473     1.487    13.926      1.25     1.608
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 290, 45.28 MPH
* File 1, Run 10, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 45.3
            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 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
  M 48 Warning:
```

```
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  70.7 (F)
             Maximum Temperature:  87.6 (F)
               Minimum Rel. Hum.:  44.7 (%)
               Maximum Rel. Hum.:  84.3 (%)
             Barometric Pressure: 30.00 (inches Hg)
                Nominal Fuel RVP:   6.7 psi
                   Weathered RVP:   6.5 psi
             Fuel Sulfur Content:  129. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4966    0.3376    0.1139              0.0136    0.0008    0.0018    0.0317    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.143     1.067     1.916     1.281     1.039     0.659     0.670     0.467      2.43     1.187
     Composite CO  :      14.81     16.27     26.07     18.74     12.04     1.486     1.153     2.286      9.89    16.098
     Composite NOX :      1.094     1.174     1.509     1.259     5.283     1.385     1.397    13.190      1.21     1.610
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 310, 35 MPH
* File 1, Run 10, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 35.0
            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 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
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  70.7 (F)
             Maximum Temperature:  87.6 (F)
               Minimum Rel. Hum.:  44.7 (%)
               Maximum Rel. Hum.:  84.3 (%)
             Barometric Pressure: 30.00 (inches Hg)
                Nominal Fuel RVP:   6.7 psi
                   Weathered RVP:   6.5 psi
             Fuel Sulfur Content:  129. ppm

             Exhaust I/M Program:  No
```

```
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1139              0.0135    0.0008    0.0018    0.0315    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.202     1.124     1.999     1.345     1.244     0.731     0.751     0.572      2.60     1.252
     Composite CO  :     13.25     14.65     24.52     17.14     13.27     1.587     1.239     2.662     11.65    14.637
     Composite NOX :      1.076     1.139     1.479     1.225     4.891     1.267     1.277    12.200      1.15     1.546
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 330, 12.9 MPH
* File 1, Run 10, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
                User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
                Minimum Temperature:  70.7 (F)
                Maximum Temperature:  87.6 (F)
                  Minimum Rel. Hum.:  44.7 (%)
                  Maximum Rel. Hum.:  84.3 (%)
                Barometric Pressure: 30.00 (inches Hg)
                   Nominal Fuel RVP:   6.7 psi
                      Weathered RVP:   6.5 psi
                Fuel Sulfur Content:  129. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5071    0.3448    0.1163              0.0072    0.0008    0.0018    0.0168    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.730     1.643     2.780     1.930     3.044     1.171     1.242     1.211      3.90     1.833
     Composite CO  :     11.27     13.37     24.57     16.20     36.12     2.779     2.251     7.105     26.00    13.705
```

```
    Composite NOX :      1.108     1.110     1.460     1.198     4.050    1.698     1.717    13.718      0.95     1.384
  ---------------------------------------------------------------------------------------------------------------------
****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                               *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 11).            *
****************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\YORK02.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:
                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)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 110, 57.99 MPH
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
           The user supplied freeway average speed of 58.0
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.

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

```
 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
                 Minimum Temperature:  70.7 (F)
                 Maximum Temperature:  87.6 (F)
                   Minimum Rel. Hum.:  44.7 (%)
                   Maximum Rel. Hum.:  84.3 (%)
                 Barometric Pressure: 30.00 (inches Hg)
                    Nominal Fuel RVP:   6.7 psi
                       Weathered RVP:   6.5 psi
                 Fuel Sulfur Content:  129. ppm

                 Exhaust I/M Program:  No
                    Evap I/M Program:  No
                         ATP Program:  No
                    Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4848    0.3297    0.1113              0.0208    0.0008    0.0017    0.0487    0.0022    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.186     1.051     1.859     1.255     0.947    0.668     0.645     0.420      2.73     1.176
     Composite CO  :      18.57     19.52     29.14     21.95     15.87    1.651     1.257     2.674     17.78    19.186
     Composite NOX :      1.202     1.283     1.607     1.365     5.852    2.172     2.131    21.769      1.51     2.375
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 150, 42.23 MPH
* File 1, Run 11, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 42.2
            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 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
  M 48 Warning:
               there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
                 Minimum Temperature:  70.7 (F)
                 Maximum Temperature:  87.6 (F)
                   Minimum Rel. Hum.:  44.7 (%)
                   Maximum Rel. Hum.:  84.3 (%)
                 Barometric Pressure: 30.00 (inches Hg)
                    Nominal Fuel RVP:   6.7 psi
                       Weathered RVP:   6.5 psi
                 Fuel Sulfur Content:  129. ppm

                 Exhaust I/M Program:  No
```

```
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4683    0.3184    0.1075              0.0303    0.0008    0.0017    0.0708    0.0022    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.254     1.122     1.974     1.337     1.076     0.717     0.698     0.487      2.33     1.231
    Composite CO  :     15.08     16.18     25.94     18.64     11.69     1.561     1.181     2.346      9.96    15.547
    Composite NOX :      1.136     1.186     1.514     1.269     5.197     1.390     1.357    12.761      1.17     2.139
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 170, 32.3 MPH
* File 1, Run 11, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 32.3
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4800    0.3263    0.1101              0.0228    0.0008    0.0017    0.0534    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.333     1.196     2.087     1.421     1.317     0.805     0.792     0.607      2.53     1.336
    Composite CO  :     13.82     14.84     24.73     17.33     13.67     1.702     1.300     2.862     12.09    14.727
```

```
    Composite NOX :      1.142     1.174     1.506     1.258     4.819    1.325     1.292    12.230      1.12     1.869
  ------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 210, 12.9 MPH
* File 1, Run 11, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4874    0.3314    0.1118              0.0174    0.0008    0.0017    0.0408    0.0085    1.0000
  ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.872     1.709     2.840     1.995     2.998    1.239     1.258     1.199      3.72     1.932
     Composite CO  :     12.03     13.80     24.93     16.60     34.74     2.862     2.275     7.084     25.47    14.344
     Composite NOX :      1.159     1.134     1.475     1.220     4.070    1.766     1.729    13.723      0.93     1.749
  ------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 230, 57.99 MPH
* File 1, Run 11, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 58.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
```

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4868    0.3310    0.1117              0.0196    0.0008    0.0017    0.0460    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.186     1.051     1.859     1.255     0.947    0.668     0.645     0.420      2.73     1.179
     Composite CO  :     18.57     19.52     29.14     21.95     15.87     1.651     1.257     2.674     17.78    19.238
     Composite NOX :      1.202     1.283     1.607     1.365     5.852    2.172     2.131    21.770      1.51     2.314
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 250, 56.70 MPH
* File 1, Run 11, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 56.7
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4895    0.3328    0.1123               0.0183    0.0008    0.0017    0.0428    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.192     1.057     1.869     1.262     0.947    0.668     0.645     0.420      2.62     1.186
     Composite CO  :      18.34     19.28     28.91     21.71     14.87    1.621     1.232     2.566     15.73    19.051
     Composite NOX :      1.197     1.276     1.600     1.358     5.794    2.033     1.994    20.642      1.47     2.189
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 270, 48.46 MPH
* File 1, Run 11, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 48.5
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
```

```
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4990    0.3393    0.1145              0.0125    0.0008    0.0018    0.0291    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.219     1.088     1.924     1.299     0.993     0.685     0.664     0.444      2.29     1.232
     Composite CO  :      16.03     17.17     26.88     19.62     11.82     1.539     1.163     2.268      9.42    17.148
     Composite NOX :      1.150     1.211     1.536     1.293     5.434     1.531     1.496    13.901      1.23     1.641
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 290, 42.23 MPH
* File 1, Run 11, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 42.2
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4966    0.3376    0.1139              0.0136    0.0008    0.0018    0.0317    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      1.254     1.122     1.974     1.337     1.076    0.717     0.698     0.487      2.33     1.268
     Composite CO  :     15.08     16.18     25.94     18.64     11.69    1.561     1.181     2.346      9.96    16.182
     Composite NOX :      1.136     1.186     1.514     1.269     5.197    1.390     1.357    12.763      1.17     1.620
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 310, 35 MPH
* File 1, Run 11, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 35.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   6.7 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:  129. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
    Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                           Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4965    0.3376    0.1139              0.0135    0.0008    0.0018    0.0315    0.0044    1.0000
   ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.301     1.166     2.037     1.386     1.232    0.775     0.760     0.567      2.46     1.319
     Composite CO  :     13.94     15.01     24.82     17.48     12.76    1.645     1.253     2.655     11.33    15.124
     Composite NOX :      1.125     1.163     1.494     1.246     4.915    1.319     1.286    12.184      1.14     1.580
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 330, 12.9 MPH
* File 1, Run 11, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT
```

```
  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   6.7 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  129. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 1.000       Alcohol Blend Market Share: 0.000
   Ether Blend Oxygen Content: 0.021     Alcohol Blend Oxygen Content: 0.000
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5071    0.3448    0.1164              0.0072    0.0008    0.0018    0.0168    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.872     1.709     2.840     1.995     2.997    1.239     1.258     1.199      3.72     1.933
     Composite CO  :     12.03     13.80     24.93     16.60     34.73     2.862     2.275     7.087     25.47    14.265
     Composite NOX :      1.159     1.134     1.475     1.220     4.070    1.766     1.729    13.726      0.93     1.420
  ---------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 12).          *
**************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\GLOUC02.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:
                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)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 130, 59 MPH
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 59.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
                Minimum Temperature:  70.7 (F)
                Maximum Temperature:  87.6 (F)
                  Minimum Rel. Hum.:  44.7 (%)
                  Maximum Rel. Hum.:  84.3 (%)
                Barometric Pressure: 30.00 (inches Hg)
                   Nominal Fuel RVP:   8.4 psi
                      Weathered RVP:   8.1 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4377    0.2976    0.1005              0.0489    0.0009    0.0016    0.1118    0.0011    1.0000
   ---------------------------------------------------------------------------------------------------------------------
   Composite Emission Factors (g/mi):
       Composite VOC :      1.668     1.553     2.879     1.888     1.418     0.738     0.795     0.468      3.17     1.608
       Composite CO  :     25.14     26.97     44.25     31.34     24.93     1.778     1.537     3.216     22.83    25.087
       Composite NOX :      1.458     1.516     1.926     1.620     6.277     2.455     2.451    23.840      1.55     4.262
   ---------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 150, 50 MPH
* File 1, Run 12, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 50.0
            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 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
  M 48 Warning:
               there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   8.4 psi
                     Weathered RVP:   8.1 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4682    0.3183    0.1075              0.0308    0.0009    0.0017    0.0703    0.0022    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.723     1.618     2.992     1.965     1.483     0.750     0.808     0.485      2.63     1.731
     Composite CO  :     21.90     23.96     41.33     28.35     17.89     1.638     1.413     2.642     11.13    23.089
     Composite NOX :      1.398     1.436     1.849     1.540     5.842     1.693     1.688    15.043      1.27     2.555
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #

* GLOUCESTER, ROADSCC 170, 35 MPH
* File 1, Run 12, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 35.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   8.4 psi
                    Weathered RVP:   8.1 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4798    0.3262    0.1102              0.0232    0.0009    0.0018    0.0531    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.884     1.767     3.211     2.132     1.873     0.855     0.925     0.631      2.81     1.927
     Composite CO  :      18.84     20.81     38.34     25.24     19.14     1.750     1.512     3.100     13.46     20.731
     Composite NOX :      1.366     1.376     1.799     1.483     5.232     1.423     1.417    12.887      1.15     2.117
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 190, 37 MPH
* File 1, Run 12, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 37.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
```

```
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   8.4 psi
                    Weathered RVP:   8.1 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4658    0.3167    0.1070              0.0312    0.0009    0.0017    0.0713    0.0055    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.858     1.744     3.178     2.106     1.798    0.835     0.902     0.603      2.77     1.874
     Composite CO  :     19.28     21.27     38.77     25.69     18.53    1.719     1.485     2.974     12.92    20.727
     Composite NOX :      1.369     1.383     1.804     1.489     5.320    1.438     1.432    13.009      1.17     2.371
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 210, 12.9 MPH
* File 1, Run 12, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   8.4 psi
                    Weathered RVP:   8.1 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4873    0.3313    0.1119              0.0177    0.0010    0.0018    0.0405    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.904     2.750     4.651     3.230     4.498    1.363     1.486     1.335      4.10     3.020
     Composite CO  :     16.48     19.70     39.55     24.71     52.11    3.011     2.630     8.270     30.03    20.505
```

```
    Composite NOX :      1.408     1.343     1.782     1.454     4.333    1.905     1.900    14.538      0.95     2.010
  ------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 270, 50 MPH
* File 1, Run 12, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 50.0
            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 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
  M 48 Warning:
               there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   8.4 psi
                     Weathered RVP:   8.1 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4989    0.3392    0.1146              0.0127    0.0010    0.0018    0.0289    0.0030    1.0000
  ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.723     1.618     2.992     1.965     1.483    0.750     0.808     0.485      2.63     1.794
     Composite CO  :     21.90     23.96     41.33     28.35     17.90    1.638     1.413     2.642     11.13    24.127
     Composite NOX :      1.398     1.436     1.849     1.540     5.843    1.693     1.688    15.042      1.27     1.914
  ------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 310, 27 MPH
* File 1, Run 12, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 27.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   8.4 psi
                    Weathered RVP:   8.1 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4963    0.3375    0.1140              0.0137    0.0010    0.0018    0.0313    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.059     1.930     3.478     2.320     2.323     0.967     1.049     0.787      3.07     2.142
     Composite CO  :     18.66     20.45     38.51     25.01     24.35     1.969     1.706     3.996     16.57    21.088
     Composite NOX :      1.444     1.433     1.863     1.541     4.915     1.469     1.464    13.258      1.08     1.904
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 330, 12.9 MPH
* File 1, Run 12, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
```

```
            Maximum Temperature:  87.6 (F)
              Minimum Rel. Hum.:  44.7 (%)
              Maximum Rel. Hum.:  84.3 (%)
            Barometric Pressure: 30.00 (inches Hg)
               Nominal Fuel RVP:   8.4 psi
                  Weathered RVP:   8.1 psi
            Fuel Sulfur Content:  279. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No

     Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:   0.5069    0.3447    0.1164              0.0073    0.0010    0.0019    0.0167    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :    2.904     2.750     4.651     3.230     4.497     1.363     1.486     1.336      4.10     3.042
     Composite CO  :    16.48     19.70     39.55     24.71     52.09     3.011     2.630     8.274     30.03    20.429
     Composite NOX :    1.408     1.343     1.782     1.454     4.333     1.905     1.900    14.542      0.95     1.669
  ---------------------------------------------------------------------------------------------------------------------
***************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                              *
* Input file: C:\02SIP\HAMPTON\2002\HAMP02.IN (file 1, run 13).           *
***************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\ISLEW02.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:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* ISLE OF WIGHT, ROADSCC 130, 48 MPH
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
           The user supplied freeway average speed of 48.0
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   8.4 psi
                    Weathered RVP:   8.1 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4376    0.2976    0.1005              0.0484    0.0009    0.0016    0.1122    0.0011    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.781     1.670     3.359     2.097     1.351    0.759     0.854     0.469      2.59     1.737
     Composite CO  :     22.78     24.59     45.90     29.97     16.56     1.650     1.482     2.410     11.18    22.991
     Composite NOX :      1.430     1.448     1.941     1.573     5.562    1.689     1.680    16.727      1.25     3.404
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* ISLE OF WIGHT, ROADSCC 150, 43 MPH
* File 1, Run 13, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 43.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  July
```

```
                    Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   8.4 psi
                     Weathered RVP:   8.1 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4681    0.3183    0.1075              0.0305    0.0010    0.0017    0.0706    0.0022    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      1.815     1.699     3.417     2.133     1.441    0.785     0.884     0.503      2.61     1.846
    Composite CO  :     20.62     22.70     44.05     28.09     16.09     1.659     1.489     2.442     11.58    22.309
    Composite NOX :      1.392     1.396     1.895     1.522     5.353    1.536     1.527    12.999      1.19     2.388
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* ISLE OF WIGHT, ROADSCC 170, 38 MPH
* File 1, Run 13, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.

  M583 Warning:
           The user supplied arterial average speed of 38.0
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   8.4 psi
                     Weathered RVP:   8.1 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4798    0.3262    0.1102              0.0230    0.0010    0.0018    0.0533    0.0048    1.0000
```

```
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.871     1.748     3.495     2.189     1.569    0.824     0.927     0.554      2.68     1.934
     Composite CO  :     19.60     21.66     43.07     27.07     16.80    1.707     1.533     2.620     12.52    21.806
     Composite NOX :      1.382     1.376     1.879     1.503     5.157    1.467     1.458    12.479      1.16     2.112
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* ISLE OF WIGHT, ROADSCC 190, 43 MPH
* File 1, Run 13, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 43.0
            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 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
  M 48 Warning:
               there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  70.7 (F)
               Maximum Temperature:  87.6 (F)
                 Minimum Rel. Hum.:  44.7 (%)
                 Maximum Rel. Hum.:  84.3 (%)
               Barometric Pressure: 30.00 (inches Hg)
                  Nominal Fuel RVP:   8.4 psi
                     Weathered RVP:   8.1 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4657    0.3167    0.1070              0.0309    0.0010    0.0017    0.0715    0.0055    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.815     1.699     3.417     2.133     1.441    0.785     0.884     0.503      2.61     1.846
     Composite CO  :     20.62     22.70     44.05     28.09     16.09    1.659     1.489     2.442     11.58    22.244
     Composite NOX :      1.392     1.396     1.895     1.522     5.353    1.536     1.527    13.000      1.19     2.399
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* ISLE OF WIGHT, ROADSCC 210, 12.9 MPH
* File 1, Run 13, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  70.7 (F)
              Maximum Temperature:  87.6 (F)
                Minimum Rel. Hum.:  44.7 (%)
                Maximum Rel. Hum.:  84.3 (%)
              Barometric Pressure: 30.00 (inches Hg)
                 Nominal Fuel RVP:   8.4 psi
                    Weathered RVP:   8.1 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4872    0.3313    0.1119              0.0176    0.0010    0.0018    0.0407    0.0085    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.948     2.750     5.075     3.337     4.037    1.362     1.529     1.255      4.01     3.076
     Composite CO  :     16.61     19.89     44.13     26.01     48.00     3.011     2.702     7.433     29.73    21.028
     Composite NOX :      1.421     1.334     1.860     1.467     4.169    1.933     1.924    14.022      0.94     2.000
  ---------------------------------------------------------------------------------------------------------------------
```

Appendix B
B-1 Sample Annual Mobile 6.2 Input File

```
MOBILE6 INPUT FILE :
>
>  HAMPTON ROADS 8-HR NONATTAINMENT AREA
>  2002 MOBILE SOURCE EMISSIONS INCLUDING PM2.5
>  RFG, NLEV, AND NO REFUELING EMISSIONS
>  2002 VMT, 2002 REG DATA
>  2002 VMT MIX, 2002 SPEEDS
>  NO RFG IN NEW JURISDICTIONS
>  WINTER SEASONAL EMISSIONS
>  SEASONAL MONTHLY AVERAGE MIN/MAX TEMPERATURE
>  SEASONAL MONTHLY AVERAGE HUMIDITY
>  SEASONAL MONTHLY AVERAGE BAROMETRIC PRESSURE
>

REPORT FILE         : C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP02.OUT
DATABASE OUTPUT     :
WITH FIELDNAMES     :
AGGREGATED OUTPUT   :
EMISSIONS TABLE     : C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP02.TXT   REPLACE
PARTICULATES        : SO4 OCARBON ECARBON GASPM LEAD SO2 NH3 BRAKE TIRE


RUN DATA            :
EXPRESS HC AS VOC   :
REG DIST            : C:\MOBILE62\HAMPTON\2002\CHESA02.RDT
NO REFUELING        :
94+ LDG IMP         : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM        : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP            : 12.9
OXYGENATED FUELS    : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD     : CHESAPEAKE, ROADSCC 230, 55.64 MPH
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 1
VMT FRACTIONS       :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED       : 55.64 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY   : 65.13
BAROMETRIC PRES     : 30.08
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.5
DIESEL SULFUR       : 330

SCENARIO RECORD     : CHESAPEAKE, ROADSCC 250, 56.47 MPH
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 1
VMT FRACTIONS       :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED       : 56.47 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY   : 65.13
BAROMETRIC PRES     : 30.08
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
```

```
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : CHESAPEAKE, ROADSCC 270, 45.35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 45.35 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : CHESAPEAKE, ROADSCC 290, 42.39 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 42.39 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : CHESAPEAKE, ROADSCC 310, 20.4 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 20.4 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : CHESAPEAKE, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\HAMPT02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
```

```
FUEL PROGRAM       : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 12.9
OXYGENATED FUELS   : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD    : HAMPTON, ROADSCC 230, 55.17 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 55.17 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : HAMPTON, ROADSCC 250, 55.0 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 55.0 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : HAMPTON, ROADSCC 270, 41.67 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 41.67 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : HAMPTON, ROADSCC 290, 39.58 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 39.58 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5

DIESEL SULFUR      : 330

SCENARIO RECORD    : HAMPTON, ROADSCC 310, 25.6 MPH
CALENDAR YEAR      : 2002
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EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 25.6 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : HAMPTON, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\NEWPO02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM       : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 12.9
OXYGENATED FUELS   : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD    : NEWPORT NEWS, ROADSCC 230, 55.45 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 55.45 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : NEWPORT NEWS, ROADSCC 270, 42.63 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 42.63 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
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PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : NEWPORT NEWS, ROADSCC 290, 39.62 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 39.62 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : NEWPORT NEWS, ROADSCC 310, 17.7 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 17.7 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : NEWPORT NEWS, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\NORFO02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM       : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 12.9
OXYGENATED FUELS   : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD    : NORFOLK, ROADSCC 230, 55.12 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
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0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 55.12 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : NORFOLK, ROADSCC 250, 54.98 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 54.98 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : NORFOLK, ROADSCC 270, 41.72 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 41.72 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : NORFOLK, ROADSCC 290, 37.49 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 37.49 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : NORFOLK, ROADSCC 310, 11.6 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 11.6 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : NORFOLK, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
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VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\POQUO02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM       : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 12.9
OXYGENATED FUELS   : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD    : POQUOSON, ROADSCC 290, 43.95 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 43.95 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : POQUOSON, ROADSCC 310, 35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 35 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : POQUOSON, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
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DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\PORTS02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM       : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 12.9
OXYGENATED FUELS   : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 230, 55 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 55 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 250, 55.3 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 55.3 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 270, 42.89 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 42.89 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 290, 38.98 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
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AVERAGE SPEED      : 38.98 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 310, 23.0 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 23.0 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : PORTSMOUTH, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\SUFFO02.RDT
NO REFUELING       :

94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM       : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 12.9
OXYGENATED FUELS   : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD    : SUFFOLK, ROADSCC 130, 49.68 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.43855 0.06881 0.22907 0.06978 0.03209 0.05197 0.00516 0.00402
0.00304 0.01139 0.01353 0.01484 0.05287 0.00262 0.00120 0.00106
AVERAGE SPEED      : 49.68 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330
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SCENARIO RECORD    : SUFFOLK, ROADSCC 150, 43.73 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.46912 0.07360 0.24503 0.07464 0.03432 0.03271 0.00325 0.00253
0.00191 0.00717 0.00851 0.00934 0.03327 0.00165 0.00076 0.00219
AVERAGE SPEED      : 43.73 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : SUFFOLK, ROADSCC 170, 40.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48076 0.07543 0.25110 0.07649 0.03517 0.02468 0.00245 0.00191
0.00144 0.00541 0.00642 0.00705 0.02511 0.00124 0.00057 0.00477
AVERAGE SPEED      : 40.9 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : SUFFOLK, ROADSCC 190, 40.5 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.46669 0.07322 0.24376 0.07425 0.03414 0.03313 0.00329 0.00256
0.00194 0.00726 0.00862 0.00946 0.03371 0.00167 0.00077 0.00553
AVERAGE SPEED      : 40.5 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : SUFFOLK, ROADSCC 210, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48821 0.07660 0.25501 0.07768 0.03572 0.01885 0.00187 0.00146
0.00110 0.00413 0.00491 0.00538 0.01917 0.00095 0.00044 0.00852
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : SUFFOLK, ROADSCC 230, 58 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 58 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
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DIESEL SULFUR      : 330

SCENARIO RECORD    : SUFFOLK, ROADSCC 250, 58 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 58 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : SUFFOLK, ROADSCC 270, 49.68 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 49.68 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : SUFFOLK, ROADSCC 290, 43.73 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 43.73 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : SUFFOLK, ROADSCC 310, 28.4 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 28.4 ARTERIAL

ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : SUFFOLK, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
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BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\VIRGI02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM       : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 12.9
OXYGENATED FUELS   : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 230, 55.12 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 55.12 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 250, 55 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
AVERAGE SPEED      : 55 FREEWAY 92.0 0.0 0.0 8.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 270, 41.45 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 41.45 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 290, 39.69 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
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VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 39.69 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 310, 35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 35 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : VIRGINIA BEACH, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\WILLI02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM       : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 12.9
OXYGENATED FUELS   : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD    : WILLIAMSBURG, ROADSCC 250, 57.08 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 57.08 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
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DIESEL SULFUR      : 330

SCENARIO RECORD    : WILLIAMSBURG, ROADSCC 270, 45.98 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 45.98 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : WILLIAMSBURG, ROADSCC 290, 39.44 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 39.44 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : WILLIAMSBURG, ROADSCC 310, 25.0 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 25.0 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5

DIESEL SULFUR      : 330

SCENARIO RECORD    : WILLIAMSBURG, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\JAMES02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
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FUEL PROGRAM       : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 12.9
OXYGENATED FUELS   : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD    : JAMES CITY, ROADSCC 110, 57.43 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48564 0.07620 0.25366 0.07727 0.03553 0.02249 0.00223 0.00174
0.00131 0.00493 0.00585 0.00642 0.02287 0.00113 0.00052 0.00221
AVERAGE SPEED      : 57.43 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : JAMES CITY, ROADSCC 150, 45.28 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.46912 0.07360 0.24503 0.07464 0.03432 0.03271 0.00325 0.00253
0.00191 0.00717 0.00851 0.00934 0.03327 0.00165 0.00076 0.00219
AVERAGE SPEED      : 45.28 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : JAMES CITY, ROADSCC 170, 36.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48076 0.07543 0.25110 0.07649 0.03517 0.02468 0.00245 0.00191
0.00144 0.00541 0.00642 0.00705 0.02511 0.00124 0.00057 0.00477
AVERAGE SPEED      : 36.9 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : JAMES CITY, ROADSCC 190, 35.1 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.46669 0.07322 0.24376 0.07425 0.03414 0.03313 0.00329 0.00256
0.00194 0.00726 0.00862 0.00946 0.03371 0.00167 0.00077 0.00553
AVERAGE SPEED      : 35.1 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : JAMES CITY, ROADSCC 210, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
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VMT FRACTIONS      :
0.48821 0.07660 0.25501 0.07768 0.03572 0.01885 0.00187 0.00146
0.00110 0.00413 0.00491 0.00538 0.01917 0.00095 0.00044 0.00852
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : JAMES CITY, ROADSCC 230, 57.43 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 57.43 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : JAMES CITY, ROADSCC 250, 56.83 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 56.83 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : JAMES CITY, ROADSCC 270, 48.52 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 48.52 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : JAMES CITY, ROADSCC 290, 45.28 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 45.28 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : JAMES CITY, ROADSCC 310, 35 MPH
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CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 35 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : JAMES CITY, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\YORK02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM       : 4
 300  299  279  259 121  92  33  33
  30   30   30   30  30  30  30  30
1000 1000 1000 1000 303 303  87  87
  80   80   80   80  80  80  80  80
FUEL RVP           : 12.9
OXYGENATED FUELS   : 0.70 0.30 0.015 0.035 1

SCENARIO RECORD    : YORK, ROADSCC 110, 57.99 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48564 0.07620 0.25366 0.07727 0.03553 0.02249 0.00223 0.00174
0.00131 0.00493 0.00585 0.00642 0.02287 0.00113 0.00052 0.00221
AVERAGE SPEED      : 57.99 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : YORK, ROADSCC 150, 42.23 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.46912 0.07360 0.24503 0.07464 0.03432 0.03271 0.00325 0.00253
0.00191 0.00717 0.00851 0.00934 0.03327 0.00165 0.00076 0.00219
AVERAGE SPEED      : 42.23 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
```

```
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : YORK, ROADSCC 170, 32.3 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48076 0.07543 0.25110 0.07649 0.03517 0.02468 0.00245 0.00191
0.00144 0.00541 0.00642 0.00705 0.02511 0.00124 0.00057 0.00477
AVERAGE SPEED      : 32.3 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : YORK, ROADSCC 210, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48821 0.07660 0.25501 0.07768 0.03572 0.01885 0.00187 0.00146
0.00110 0.00413 0.00491 0.00538 0.01917 0.00095 0.00044 0.00852
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : YORK, ROADSCC 230, 57.99 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48761 0.07650 0.25469 0.07758 0.03567 0.02122 0.00211 0.00164
0.00124 0.00465 0.00552 0.00606 0.02159 0.00107 0.00049 0.00236
AVERAGE SPEED      : 57.99 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5

DIESEL SULFUR      : 330

SCENARIO RECORD    : YORK, ROADSCC 250, 56.70 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49028 0.07693 0.25609 0.07801 0.03587 0.01978 0.00196 0.00153
0.00116 0.00434 0.00515 0.00565 0.02012 0.00100 0.00046 0.00167
AVERAGE SPEED      : 56.70 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : YORK, ROADSCC 270, 48.46 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
```

```
AVERAGE SPEED      : 48.46 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330


SCENARIO RECORD    : YORK, ROADSCC 290, 42.23 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49739 0.07804 0.25979 0.07914 0.03639 0.01465 0.00145 0.00113
0.00086 0.00321 0.00381 0.00418 0.01491 0.00074 0.00034 0.00397
AVERAGE SPEED      : 42.23 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : YORK, ROADSCC 310, 35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 35 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : YORK, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :



EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\GLOUC02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM       : 1
FUEL RVP           : 12.9
SEASON             : 2

SCENARIO RECORD    : GLOUCESTER, ROADSCC 130, 59 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
```

```
VMT FRACTIONS      :
0.43855 0.06881 0.22907 0.06978 0.03209 0.05197 0.00516 0.00402
0.00304 0.01139 0.01353 0.01484 0.05287 0.00262 0.00120 0.00106
AVERAGE SPEED      : 59 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : GLOUCESTER, ROADSCC 150, 50 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.46912 0.07360 0.24503 0.07464 0.03432 0.03271 0.00325 0.00253
0.00191 0.00717 0.00851 0.00934 0.03327 0.00165 0.00076 0.00219
AVERAGE SPEED      : 50 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : GLOUCESTER, ROADSCC 170, 35 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48076 0.07543 0.25110 0.07649 0.03517 0.02468 0.00245 0.00191
0.00144 0.00541 0.00642 0.00705 0.02511 0.00124 0.00057 0.00477
AVERAGE SPEED      : 35 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : GLOUCESTER, ROADSCC 190, 37 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.46669 0.07322 0.24376 0.07425 0.03414 0.03313 0.00329 0.00256
0.00194 0.00726 0.00862 0.00946 0.03371 0.00167 0.00077 0.00553
AVERAGE SPEED      : 37 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : GLOUCESTER, ROADSCC 210, 12.9 MPH
CALENDAR YEAR      : 2002

EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48821 0.07660 0.25501 0.07768 0.03572 0.01885 0.00187 0.00146
0.00110 0.00413 0.00491 0.00538 0.01917 0.00095 0.00044 0.00852
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330
```

```
SCENARIO RECORD    : GLOUCESTER, ROADSCC 270, 50 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.49984 0.07842 0.26108 0.07953 0.03657 0.01345 0.00134 0.00104
0.00079 0.00295 0.00350 0.00384 0.01369 0.00068 0.00031 0.00297
AVERAGE SPEED      : 50 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : GLOUCESTER, ROADSCC 310, 27 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1

VMT FRACTIONS      :
0.49730 0.07803 0.25975 0.07912 0.03638 0.01456 0.00144 0.00113
0.00085 0.00319 0.00379 0.00416 0.01481 0.00073 0.00034 0.00442
AVERAGE SPEED      : 27 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : GLOUCESTER, ROADSCC 330, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.50791 0.07969 0.26529 0.08081 0.03716 0.00777 0.00077 0.00060
0.00045 0.00170 0.00202 0.00222 0.00791 0.00039 0.00018 0.00513
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :


EXPRESS HC AS VOC  :
REG DIST           : C:\MOBILE62\HAMPTON\2002\ISLEW02.RDT
NO REFUELING       :
94+ LDG IMP        : C:\MOBILE62\HAMPTON\NLEVNE.D
MIN/MAX TEMPERATURE: 36.12 53.99
FUEL PROGRAM       : 1
FUEL RVP           : 12.9
SEASON             : 2

SCENARIO RECORD    : ISLE OF WIGHT, ROADSCC 130, 48 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.43855 0.06881 0.22907 0.06978 0.03209 0.05197 0.00516 0.00402
0.00304 0.01139 0.01353 0.01484 0.05287 0.00262 0.00120 0.00106
AVERAGE SPEED      : 48 FREEWAY 92.0 0.0 0.0 8.0
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
```

```
DIESEL SULFUR      : 330

SCENARIO RECORD    : ISLE OF WIGHT, ROADSCC 150, 43 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.46912 0.07360 0.24503 0.07464 0.03432 0.03271 0.00325 0.00253
0.00191 0.00717 0.00851 0.00934 0.03327 0.00165 0.00076 0.00219
AVERAGE SPEED      : 43 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : ISLE OF WIGHT, ROADSCC 170, 38 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48076 0.07543 0.25110 0.07649 0.03517 0.02468 0.00245 0.00191
0.00144 0.00541 0.00642 0.00705 0.02511 0.00124 0.00057 0.00477
AVERAGE SPEED      : 38 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : ISLE OF WIGHT, ROADSCC 190, 43 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :

0.46669 0.07322 0.24376 0.07425 0.03414 0.03313 0.00329 0.00256
0.00194 0.00726 0.00862 0.00946 0.03371 0.00167 0.00077 0.00553
AVERAGE SPEED      : 43 ARTERIAL
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

SCENARIO RECORD    : ISLE OF WIGHT, ROADSCC 210, 12.9 MPH
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 1
VMT FRACTIONS      :
0.48821 0.07660 0.25501 0.07768 0.03572 0.01885 0.00187 0.00146
0.00110 0.00413 0.00491 0.00538 0.01917 0.00095 0.00044 0.00852
VMT BY FACILITY    : C:\MOBILE62\HAMPTON\LOCAL.TXT
ABSOLUTE HUMIDITY  : 65.13
BAROMETRIC PRES    : 30.08
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 330

END OF RUN         :
```

Appendix B
B-2 Sample Annual Mobile 6.2 Output File

```
***************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                              *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 1).   *
***************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\CHESA02.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:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 230, 55.64 MPH
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
           The user supplied freeway average speed of 55.6
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.

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

* Reading Ammonia (NH3) Basic Emissiion 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 C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No


       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4868    0.3310    0.1117              0.0194    0.0008    0.0017    0.0462    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.464     1.337     2.076     1.524     0.776    0.626     0.600     0.395      2.41     1.428
     Composite CO  :     29.21     32.48     39.17     34.17     13.35     1.534     1.145     2.312     13.83    29.747
     Composite NOX :      1.612     1.699     2.052     1.788     5.810    1.949     1.878    20.531      2.02     2.648
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 250, 56.47 MPH
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 56.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm
```

```
              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4895    0.3328    0.1123              0.0181    0.0008    0.0018    0.0431    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.459     1.332     2.069     1.518     0.773    0.625     0.598     0.394      2.47     1.426
     Composite CO  :     29.36     32.65     39.34     34.34     13.68     1.544     1.153     2.345     14.86    30.035
     Composite NOX :      1.618     1.705     2.058     1.794     5.844    2.003     1.930    20.961      2.05     2.608
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 270, 45.35 MPH
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 45.3
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4990    0.3393    0.1145              0.0123    0.0008    0.0018    0.0293    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.516     1.392     2.151     1.583     0.863    0.654     0.630     0.433      2.17     1.506
     Composite CO  :     25.94     29.05     35.86     30.77     10.73     1.470     1.090     2.091      9.73    27.132
     Composite NOX :      1.508     1.589     1.949     1.680     5.367    1.432     1.374    13.347      1.66     1.981
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 290, 42.39 MPH
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
                User supplied VMT mix.
  M583 Warning:
             The user supplied arterial average speed of 42.4
             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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
    Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                           Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4966    0.3377    0.1139              0.0134    0.0008    0.0018    0.0319    0.0040    1.0000
   ----------------------------------------------------------------------------------------------------------------------
  Composite Emission Factors (g/mi):
      Composite VOC :      1.538     1.411     2.175     1.604     0.912    0.671     0.648     0.455      2.20     1.525
      Composite CO  :     25.43     28.50     35.31     30.21     10.82     1.487     1.104     2.149     10.04    26.529
      Composite NOX :      1.492     1.571     1.932     1.662     5.257    1.382     1.325    12.949      1.64     1.985
   ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 310, 20.4 MPH
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
                User supplied VMT mix.
  M583 Warning:
             The user supplied arterial average speed of 20.4
             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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1139              0.0133    0.0008    0.0018    0.0317    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.942     1.779     2.672     2.004     1.906    0.951     0.950     0.828      2.87     1.936
     Composite CO  :     25.14     28.13     35.46     29.98     20.31    2.091     1.613     4.216     16.67    26.502
     Composite NOX :      1.597     1.686     2.071     1.783     4.405    1.474     1.415    13.687      1.38     2.100
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* CHESAPEAKE, ROADSCC 330, 12.9 MPH
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
```

```
                     Month:  Jan.
                  Altitude:  Low
       Minimum Temperature:  36.1 (F)
       Maximum Temperature:  54.0 (F)
         Absolute Humidity:   65. grains/lb
          Nominal Fuel RVP:  12.9 psi
             Weathered RVP:  12.9 psi
       Fuel Sulfur Content:  279. ppm

       Exhaust I/M Program:  No
          Evap I/M Program:  No
               ATP Program:  No
          Reformulated Gas:  No

   Ether Blend Market Share: 0.700      Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5071    0.3448    0.1163              0.0071    0.0008    0.0018    0.0169    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.385     2.107     3.080     2.353     3.068    1.172     1.188     1.122      3.56     2.357
     Composite CO  :      22.77     25.57     33.03     27.46     32.18    2.758     2.176     6.502     23.76    24.676
     Composite NOX :      1.387     1.448     1.824     1.543     4.112    1.754     1.687    13.540      1.29     1.684
  ---------------------------------------------------------------------------------------------------------------------
***************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                              *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 2).   *
***************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\HAMPT02.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)
  M603 Comment:
            User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
            User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 230, 55.17 MPH
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
            User supplied VMT mix.
  M582 Warning:
         The user supplied freeway average speed of 55.2
         will be used for all hours of the day. 100% of VMT
         has been assigned to a fixed combination of freeways
         and freeway ramps for all hours of the day and all
          vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4867    0.3309    0.1118              0.0198    0.0010    0.0018    0.0458    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.695     1.701     3.030     2.037     1.094    0.690     0.776     0.455      2.40     1.777
     Composite CO  :     31.35     36.72     51.40     40.42     18.18     1.624     1.439     2.768     13.29    33.672
     Composite NOX :      1.745     1.839     2.402     1.981     6.148    2.058     2.060    20.703      2.01     2.806
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 250, 55.0 MPH
* File 1, Run 2, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

```
 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4893    0.3327    0.1124              0.0184    0.0010    0.0018    0.0427    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.696     1.703     3.032     2.038     1.095     0.690     0.776     0.455      2.38     1.783
     Composite CO  :     31.31     36.68     51.36     40.38     18.09     1.622     1.437     2.759     13.07    33.776
     Composite NOX :      1.744     1.837     2.401     1.980     6.141     2.046     2.048    20.605      2.00     2.737
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 270, 41.67 MPH
* File 1, Run 2, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 41.7
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
```

```
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4989    0.3392    0.1146              0.0125    0.0010    0.0018    0.0290    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.792     1.805     3.197     2.157     1.292     0.742     0.835     0.528      2.23     1.913
     Composite CO  :     27.42     32.47     47.33     36.22     14.99     1.585     1.404     2.614     10.19    30.413
     Composite NOX :      1.624     1.709     2.283     1.854     5.551     1.471     1.470    13.272      1.64     2.116
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 290, 39.58 MPH
* File 1, Run 2, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 39.6
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3375    0.1140              0.0137    0.0010    0.0018    0.0316    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.812     1.825     3.226     2.178     1.346     0.758     0.853     0.550      2.26     1.930
     Composite CO  :     27.01     32.02     46.89     35.77     15.20     1.603     1.420     2.685     10.47    29.898
     Composite NOX :      1.612     1.696     2.272     1.841     5.461     1.437     1.436    13.009      1.63     2.128
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 310, 25.6 MPH
* File 1, Run 2, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # #
```

```
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 25.6
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4963    0.3375    0.1140              0.0136    0.0010    0.0018    0.0314    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.059     2.063     3.605     2.453     2.062    0.931     1.051     0.793      2.65     2.197
     Composite CO  :     26.37     31.30     46.70     35.19     21.94    1.934     1.719     4.006     14.23    29.468
     Composite NOX :      1.661     1.748     2.340     1.897     4.890    1.469     1.468    13.261      1.47     2.175
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* HAMPTON, ROADSCC 330, 12.9 MPH
* File 1, Run 2, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
    Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                           Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.5069    0.3447    0.1164              0.0072    0.0010    0.0019    0.0168    0.0051    1.0000
   ---------------------------------------------------------------------------------------------------------------------
  Composite Emission Factors (g/mi):
      Composite VOC :      2.743     2.659     4.459     3.114     4.146     1.284     1.452     1.288      3.59     2.900
      Composite CO  :     24.97     29.87     46.04     33.96     44.43     2.896     2.587     7.848     23.84    28.899
      Composite NOX :      1.525     1.590     2.190     1.742     4.365     1.882     1.883    14.290      1.30     1.859
   ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 3).   *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\NEWPO02.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)
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NEWPORT NEWS, ROADSCC 230, 55.45 MPH
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 55.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No

                      ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4867    0.3310    0.1117              0.0196    0.0009    0.0018    0.0460    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.509     1.494     2.502     1.748     0.922     0.644     0.676     0.423      2.32     1.553
     Composite CO  :     29.47     34.24     44.48     36.82     15.71     1.561     1.275     2.537     13.39    31.105
     Composite NOX :      1.618     1.743     2.190     1.856     5.956     1.976     1.958    20.603      2.00     2.684
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NEWPORT NEWS, ROADSCC 270, 42.63 MPH
* File 1, Run 3, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 42.6
            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 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
  M 48 Warning:

              there are no sales for vehicle class HDGV8b
```

```
 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4990    0.3393    0.1145              0.0124    0.0009    0.0018    0.0292    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.585     1.577     2.625     1.842     1.073     0.688     0.725     0.484      2.13     1.662
     Composite CO  :     25.81     30.28     40.67     32.90     12.79     1.514     1.233     2.359      9.84    28.068
     Composite NOX :      1.502     1.619     2.074     1.734     5.405     1.414     1.397    13.146      1.63     1.995
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NEWPORT NEWS, ROADSCC 290, 39.62 MPH
* File 1, Run 3, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 39.6
            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 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
  M 48 Warning:
               there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
               Minimum Temperature:  36.1 (F)

               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
```

```
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1140              0.0135    0.0009    0.0018    0.0318    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.611     1.601     2.658     1.868     1.139     0.707     0.747     0.512      2.16     1.686
     Composite CO  :     25.26     29.67     40.06     32.29     13.02     1.537     1.253     2.446     10.22    27.421
     Composite NOX :      1.484     1.600     2.057     1.715     5.282     1.367     1.349    12.766      1.61     1.998
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* NEWPORT NEWS, ROADSCC 310, 17.7 MPH
* File 1, Run 3, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 17.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3375    0.1139              0.0134    0.0009    0.0018    0.0316    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.156     2.126     3.407     2.449     2.591     1.041     1.122     0.977      2.96     2.258
     Composite CO  :     26.25     30.79     42.16     33.66     27.87     2.311     1.930     5.337     18.27    28.856
     Composite NOX :      1.662     1.799     2.291     1.923     4.425     1.584     1.566    14.512      1.33     2.221
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* NEWPORT NEWS, ROADSCC 330, 12.9 MPH
* File 1, Run 3, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # #
```

```
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5070    0.3447    0.1164              0.0072    0.0009    0.0018    0.0168    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.452     2.347     3.696     2.687     3.558    1.202     1.301     1.200      3.46     2.549
     Composite CO  :     23.26     27.46     38.80     30.32     38.07     2.798     2.356     7.157     23.50    26.296
     Composite NOX :      1.399     1.496     1.970     1.616     4.221    1.790     1.772    13.864      1.28     1.729
  ---------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 4).   *
**************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\NORFO02.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)
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.
```

```
* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 230, 55.12 MPH
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 55.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4867    0.3309    0.1117              0.0195    0.0009    0.0018    0.0461    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.575     1.535     2.503     1.779     0.900     0.655     0.697     0.418      2.24     1.598
     Composite CO  :     30.15     34.73     44.63     37.23     15.14     1.573     1.303     2.458     12.81     31.596
     Composite NOX :      1.661     1.778     2.212     1.887     5.920     2.004     1.966    20.514      1.98     2.714
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 250, 54.98 MPH
* File 1, Run 4, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
```

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4894    0.3328    0.1123              0.0182    0.0009    0.0018    0.0429    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.576     1.536     2.505     1.781     0.900     0.655     0.697     0.419      2.23     1.604
     Composite CO  :      30.12     34.70     44.60     37.20     15.08     1.572     1.301     2.452     12.63    31.702
     Composite NOX :      1.660     1.777     2.211     1.886     5.915     1.994     1.956    20.436      1.98     2.646
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 270, 41.72 MPH
* File 1, Run 4, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 41.7
            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 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
```

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No


       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4989    0.3392    0.1145              0.0124    0.0009    0.0018    0.0292    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.662     1.626     2.636     1.881     1.065    0.705     0.753     0.486      2.08     1.718
     Composite CO  :     26.30     30.60     40.61     33.12     12.50    1.536     1.270     2.322      9.81    28.409
     Composite NOX :      1.542     1.649     2.092     1.761     5.349    1.435     1.404    13.060      1.61     2.025
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 290, 37.49 MPH
* File 1, Run 4, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 37.5
            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 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
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
```

```
                Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                         Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1140              0.0135    0.0009    0.0018    0.0318    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.701     1.661     2.684     1.919     1.170     0.737     0.789     0.529      2.15     1.754
     Composite CO  :      25.54     29.73     39.77     32.27     13.08     1.580     1.309     2.483     10.46     27.549
     Composite NOX :      1.521     1.626     2.072     1.739     5.183     1.388     1.357    12.694      1.59     2.024
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 310, 11.6 MPH
* File 1, Run 4, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 11.6
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                         Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3375    0.1139              0.0134    0.0009    0.0018    0.0316    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.869     2.752     4.187     3.114     3.785     1.263     1.382     1.239      3.60     2.939
     Composite CO  :      30.08     34.85     46.83     37.87     40.15     2.966     2.532     7.497     25.63     32.927
     Composite NOX :      1.942     2.098     2.615     2.229     4.173     1.893     1.856    16.634      1.27     2.562
  ---------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* NORFOLK, ROADSCC 330, 12.9 MPH
* File 1, Run 4, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5070    0.3447    0.1164              0.0071    0.0009    0.0019    0.0169    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.563     2.409     3.714     2.738     3.489    1.223     1.337     1.185      3.38     2.628
     Composite CO  :     23.83     27.87     38.84     30.64     37.06     2.822     2.405     6.976     23.25    26.714
     Composite NOX :      1.443     1.531     1.991     1.647     4.205    1.836     1.799    13.825      1.27     1.766
  ---------------------------------------------------------------------------------------------------------------------
********************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                                   *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 5).        *
********************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\POQUO02.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)
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # #
* POQUOSON, ROADSCC 290, 43.95 MPH
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 44.0
            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 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
  M 48 Warning:
               there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
    Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                           Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4964    0.3376    0.1140              0.0137    0.0010    0.0018    0.0315    0.0040    1.0000
   ---------------------------------------------------------------------------------------------------------------------
  Composite Emission Factors (g/mi):
      Composite VOC :      1.911     1.704     2.954     2.020     1.328     0.804     0.763     0.532      2.42     1.908
      Composite CO  :      28.66     32.22     45.29     35.52     15.95     1.671     1.298     2.650     10.47     30.611
      Composite NOX :      1.710     1.699     2.225     1.832     5.733     1.557     1.460    13.751      1.70     2.199
   ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* POQUOSON, ROADSCC 310, 35 MPH
* File 1, Run 5, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
```

```
           The user supplied arterial average speed of 35.0
           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 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
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                   Calendar Year:  2002
                          Month:  Jan.
                       Altitude:  Low
             Minimum Temperature:  36.1 (F)
             Maximum Temperature:  54.0 (F)
               Absolute Humidity:   65. grains/lb
                Nominal Fuel RVP:  12.9 psi
                   Weathered RVP:  12.9 psi
             Fuel Sulfur Content:  279. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4963    0.3375    0.1140              0.0136    0.0010    0.0018    0.0314    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      2.003     1.785     3.070     2.109     1.611    0.881     0.842     0.637      2.58     2.002
    Composite CO  :     26.99     30.33     43.47     33.65     17.55    1.772     1.383     3.052     11.90    28.975
    Composite NOX :      1.664     1.650     2.183     1.784     5.356    1.450     1.358    12.910      1.63     2.121
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* POQUOSON, ROADSCC 330, 12.9 MPH
* File 1, Run 5, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
             User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

* 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

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

LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D

Calendar Year: 2002
Month: Jan.

Altitude: Low
Minimum Temperature: 36.1 (F)
Maximum Temperature: 54.0 (F)
Absolute Humidity: 65. grains/lb
Nominal Fuel RVP: 12.9 psi
Weathered RVP: 12.9 psi
Fuel Sulfur Content: 279. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Ether Blend Market Share: 0.700 Alcohol Blend Market Share: 0.300
Ether Blend Oxygen Content: 0.015 Alcohol Blend Oxygen Content: 0.035
Alcohol Blend RVP Waiver: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.5069	0.3447	0.1164		0.0073	0.0010	0.0018	0.0167	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	2.903	2.547	4.170	2.957	4.429	1.405	1.372	1.349	3.88	2.913
Composite CO :	25.89	29.11	43.36	32.70	47.76	3.050	2.461	8.147	24.66	28.823
Composite NOX :	1.600	1.566	2.117	1.705	4.436	1.941	1.824	14.533	1.34	1.885

****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 6). *
****

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\PORTS02.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:
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)

M603 Comment:
User has disabled the calculation of REFUELING emissions.

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external

```
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 230, 55 MPH
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4867    0.3309    0.1117              0.0197    0.0010    0.0018    0.0459    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.726     1.692     2.937     2.006     1.023     0.687     0.760     0.442      2.32     1.776
     Composite CO  :      31.86     36.75     50.40     40.20     17.01     1.619     1.408     2.599     12.91    33.790
     Composite NOX :      1.771     1.849     2.380     1.983     6.104     2.068     2.035    20.931      1.99     2.832
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 250, 55.3 MPH
* File 1, Run 6, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 55.3
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
```

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4893    0.3327    0.1124              0.0183    0.0010    0.0018    0.0428    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.724     1.689     2.933     2.003     1.021    0.687     0.759     0.441      2.34     1.779
     Composite CO  :     31.93     36.82     50.47     40.27     17.17    1.623     1.411     2.613     13.29    33.999
     Composite NOX :      1.773     1.851     2.382     1.985     6.117    2.090     2.057    21.100      2.01     2.776
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 270, 42.89 MPH
* File 1, Run 6, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 42.9
            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 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
  M 48 Warning:
```

```
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  36.1 (F)
             Maximum Temperature:  54.0 (F)
               Absolute Humidity:   65. grains/lb
                Nominal Fuel RVP:  12.9 psi
                   Weathered RVP:  12.9 psi
             Fuel Sulfur Content:  279. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4989    0.3392    0.1146              0.0125    0.0010    0.0018    0.0291    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.816     1.785     3.083     2.113     1.182     0.732     0.810     0.502      2.16     1.903
     Composite CO  :     28.15     32.78     46.58     36.26     14.02     1.574     1.368     2.429      9.90    30.777
     Composite NOX :      1.659     1.729     2.268     1.865     5.568     1.508     1.481    13.574      1.64     2.148
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 290, 38.98 MPH
* File 1, Run 6, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 39.0
            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 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
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  36.1 (F)
             Maximum Temperature:  54.0 (F)
               Absolute Humidity:   65. grains/lb
                Nominal Fuel RVP:  12.9 psi
                   Weathered RVP:  12.9 psi
             Fuel Sulfur Content:  279. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

```
   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3375    0.1140              0.0136    0.0010    0.0018    0.0317    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.855     1.821     3.135     2.153     1.280    0.760     0.842     0.540      2.21     1.939
     Composite CO  :     27.39     31.94     45.76     35.43     14.42    1.607     1.398     2.557     10.42    29.916
     Composite NOX :      1.638     1.705     2.248     1.842     5.407    1.449     1.423    13.116      1.61     2.145
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 310, 23.0 MPH
* File 1, Run 6, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 23.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4963    0.3375    0.1140              0.0135    0.0010    0.0018    0.0315    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.192     2.139     3.622     2.514     2.174    0.979     1.091     0.839      2.69     2.293
     Composite CO  :     27.26     31.78     46.28     35.44     23.16    2.050     1.797     4.224     15.17    30.048
     Composite NOX :      1.726     1.799     2.363     1.942     4.762    1.535     1.508    13.783      1.42     2.243
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* PORTSMOUTH, ROADSCC 330, 12.9 MPH
```

```
* File 1, Run 6, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5069    0.3447    0.1164              0.0072    0.0010    0.0019    0.0168    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.818     2.656     4.342     3.082     3.933     1.281     1.434     1.250      3.50     2.921
     Composite CO  :     25.42     29.86     44.92     33.66     41.79     2.891     2.554     7.391     23.59    28.957
     Composite NOX :      1.553     1.602     2.166     1.744     4.339     1.902     1.871    14.289      1.29     1.875
  ---------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 7).   *
**************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\SUFFO02.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:
                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)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 130, 49.68 MPH
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
           The user supplied freeway average speed of 49.7
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4377    0.2977    0.1005              0.0481    0.0008    0.0016    0.1126    0.0011    1.0000
   ---------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      1.699     1.620     2.931     1.951     1.028    0.698     0.742     0.449      2.14     1.625
     Composite CO  :     29.85     33.82     48.02     37.41     14.66    1.568     1.315     2.352      9.59    28.942
     Composite NOX :      1.686     1.743     2.302     1.884     5.739    1.709     1.671    18.218      1.79     3.820
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 150, 43.73 MPH
* File 1, Run 7, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 43.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
    Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                           Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4682    0.3184    0.1075              0.0303    0.0009    0.0017    0.0708    0.0022    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.730     1.649     2.986     1.987     1.117    0.725     0.771     0.485      2.16     1.731
     Composite CO  :     27.43     31.31     45.62     34.93     13.78    1.564     1.311     2.337      9.83    28.325
     Composite NOX :      1.614     1.667     2.233     1.810     5.478    1.493     1.459    13.470      1.64     2.654
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 170, 40.9 MPH
* File 1, Run 7, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 40.9
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4799    0.3263    0.1102              0.0228    0.0009    0.0017    0.0534    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.756     1.672     3.020     2.012     1.179     0.743     0.791     0.510      2.19     1.787
     Composite CO  :     26.90     30.73     45.06     34.35     13.95     1.584     1.328     2.409     10.16    28.400
     Composite NOX :      1.598     1.649     2.217     1.792     5.365     1.444     1.411    13.094      1.63     2.383
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 190, 40.5 MPH
* File 1, Run 7, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 40.5
            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 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
  M 48 Warning:
```

```
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  36.1 (F)
             Maximum Temperature:  54.0 (F)
               Absolute Humidity:   65. grains/lb
                Nominal Fuel RVP:  12.9 psi
                   Weathered RVP:  12.9 psi
             Fuel Sulfur Content:  279. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4658    0.3167    0.1069              0.0307    0.0009    0.0017    0.0718    0.0055    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.760     1.675     3.026     2.016     1.188     0.746     0.795     0.513      2.20     1.761
     Composite CO  :      26.82     30.65     44.97     34.26     13.98     1.587     1.331     2.420     10.21    27.672
     Composite NOX :      1.595     1.646     2.215     1.789     5.347     1.437     1.403    13.036      1.62     2.613
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 210, 12.9 MPH
* File 1, Run 7, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  36.1 (F)
             Maximum Temperature:  54.0 (F)
               Absolute Humidity:   65. grains/lb
                Nominal Fuel RVP:  12.9 psi
                   Weathered RVP:  12.9 psi
             Fuel Sulfur Content:  279. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

```
   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4873    0.3314    0.1119              0.0174    0.0009    0.0018    0.0408    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      2.680     2.450     4.189     2.889     3.779    1.276     1.379     1.224      3.52     2.736
    Composite CO  :     24.60     28.22     43.76     32.14     41.23    2.886     2.473     7.168     23.65    27.453
    Composite NOX :      1.502     1.536     2.128     1.685     4.245    1.866     1.826    13.960      1.29     2.139
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #

* SUFFOLK, ROADSCC 230, 58 MPH
* File 1, Run 7, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 58.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4867    0.3309    0.1117              0.0196    0.0009    0.0018    0.0460    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.636     1.551     2.824     1.873     0.976    0.683     0.725     0.429      2.56     1.672
    Composite CO  :     31.54     35.69     49.83     39.26     18.84    1.665     1.400     2.707     16.89    33.270
    Composite NOX :      1.744     1.805     2.362     1.945     6.104    2.296     2.250    22.779      2.11     2.887
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* SUFFOLK, ROADSCC 250, 58 MPH
* File 1, Run 7, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 58.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
    Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                           Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4894    0.3328    0.1124              0.0183    0.0009    0.0018    0.0428    0.0017    1.0000
   ---------------------------------------------------------------------------------------------------------------------
  Composite Emission Factors (g/mi):
      Composite VOC :      1.636     1.551     2.824     1.873     0.976     0.683     0.725     0.429      2.56     1.677
      Composite CO  :      31.54     35.69     49.83     39.26     18.85     1.665     1.400     2.706     16.89    33.405
      Composite NOX :      1.744     1.805     2.362     1.945     6.104     2.296     2.250    22.778      2.11     2.816
   ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 270, 49.68 MPH
* File 1, Run 7, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 49.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4989    0.3392    0.1146              0.0124    0.0009    0.0018    0.0291    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.680     1.602     2.914     1.933     1.020    0.696     0.739     0.446      2.13     1.749
     Composite CO  :     28.51     32.51     46.78     36.11     14.14     1.552     1.300     2.291     9.47    30.888
     Composite NOX :      1.648     1.704     2.266     1.846     5.713    1.650     1.613    14.689      1.74     2.168
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 290, 43.73 MPH
* File 1, Run 7, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 43.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
```

```
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1140              0.0136    0.0009    0.0018    0.0317    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.730     1.649     2.986     1.987     1.117    0.725     0.771     0.485      2.16     1.797
     Composite CO  :     27.43     31.31     45.62     34.93     13.78     1.564     1.311     2.337      9.83    29.691
     Composite NOX :      1.614     1.667     2.233     1.810     5.478    1.493     1.459    13.473      1.64     2.131
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 310, 28.4 MPH
* File 1, Run 7, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 28.4
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

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

```
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4964    0.3375    0.1140              0.0135    0.0009    0.0018    0.0315    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.944     1.843     3.297     2.210     1.675    0.878     0.941     0.691      2.49     2.020
     Composite CO  :      25.77     29.48     44.12     33.17     18.29    1.824     1.539     3.286     13.04    28.183
     Composite NOX :      1.608     1.657     2.237     1.804     4.870    1.422     1.389    12.919      1.50     2.096
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* SUFFOLK, ROADSCC 330, 12.9 MPH
* File 1, Run 7, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5070    0.3447    0.1164              0.0072    0.0010    0.0018    0.0168    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.680     2.450     4.189     2.889     3.778    1.276     1.379     1.225      3.52     2.760
     Composite CO  :      24.60     28.22     43.76     32.14     41.21    2.886     2.473     7.171     23.65    27.836
     Composite NOX :      1.502     1.536     2.128     1.685     4.245    1.866     1.826    13.964      1.29     1.816
  ---------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 8).   *
**************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\VIRGI02.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:
                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)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 230, 55.12 MPH
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
           The user supplied freeway average speed of 55.1
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                   Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  36.1 (F)
             Maximum Temperature:  54.0 (F)
               Absolute Humidity:   65. grains/lb
                Nominal Fuel RVP:  12.9 psi
                   Weathered RVP:  12.9 psi
             Fuel Sulfur Content:  279. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
```

```
                Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4869    0.3310    0.1117              0.0194    0.0007    0.0017    0.0462    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.403     1.249     1.821     1.394     0.786     0.605     0.556     0.398      2.18     1.340
     Composite CO  :      28.42     31.28     35.75     32.41     13.44     1.496     1.064     2.300     12.66     28.585
     Composite NOX :      1.566     1.660     1.952     1.733     5.760     1.869     1.791    20.014      1.97     2.575
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 250, 55 MPH
* File 1, Run 8, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
                User supplied VMT mix.
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                      Calendar Year:  2002
                              Month:  Jan.
                           Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4895    0.3329    0.1123              0.0181    0.0008    0.0017    0.0431    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.404     1.250     1.821     1.394     0.787     0.605     0.556     0.398      2.17     1.344
     Composite CO  :      28.40     31.26     35.72     32.38     13.39     1.494     1.062     2.295     12.51     28.683
     Composite NOX :      1.565     1.659     1.951     1.733     5.756     1.861     1.783    19.948      1.96     2.509
  ---------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 270, 41.45 MPH
* File 1, Run 8, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 41.5
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4991    0.3393    0.1145              0.0123    0.0008    0.0018    0.0293    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.476     1.319     1.906     1.467     0.937    0.653     0.607     0.464      2.03     1.435
     Composite CO  :     24.61     27.27     31.83     28.42     11.11     1.461     1.035     2.179      9.70    25.413
     Composite NOX :      1.443     1.529     1.830     1.605     5.194    1.333     1.271    12.690      1.60     1.892
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 290, 39.69 MPH
* File 1, Run 8, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 39.7
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4966    0.3377    0.1139              0.0134    0.0008    0.0018    0.0319    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.490     1.331     1.920     1.480     0.973     0.665     0.619     0.480      2.05     1.446
     Composite CO  :     24.29     26.92     31.48     28.07     11.24     1.475     1.046     2.228      9.94    25.001
     Composite NOX :      1.433     1.518     1.819     1.594     5.123     1.307     1.245    12.477      1.59     1.907
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 310, 35 MPH
* File 1, Run 8, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 35.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
```

```
                    Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1139              0.0133    0.0008    0.0018    0.0317    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.530     1.365     1.958     1.514     1.094    0.703     0.660     0.532      2.14     1.486
     Composite CO  :     23.46     26.01     30.57     27.16     12.09     1.538     1.098     2.445     10.80    24.203
     Composite NOX :      1.410     1.495     1.800     1.572     4.941    1.277     1.216    12.230      1.55     1.874
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* VIRGINIA BEACH, ROADSCC 330, 12.9 MPH
* File 1, Run 8, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
```

```
              GVWR:              <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5071    0.3448    0.1163              0.0071    0.0008    0.0018    0.0169    0.0051    1.0000
  -------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :     2.280     1.969     2.705     2.155     3.095     1.134     1.122     1.127      3.31     2.211
     Composite CO  :     22.11     24.49     29.51     25.76     32.89     2.711     2.072     6.526     23.08    23.560
     Composite NOX :     1.343     1.413     1.724     1.491     4.092     1.711     1.638    13.475      1.26     1.637
  -------------------------------------------------------------------------------------------------------------------
***************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                              *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 9).   *
***************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\WILLI02.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:

                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)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # #
* WILLIAMSBURG, ROADSCC 250, 57.08 MPH
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
           The user supplied freeway average speed of 57.1
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4895    0.3329    0.1123              0.0181    0.0007    0.0018    0.0430    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.305     1.237     1.832     1.387     0.790    0.576     0.574     0.391      2.12     1.292
     Composite CO  :     27.75     31.49     35.97     32.62     14.60     1.486     1.122     2.396     14.54    28.499
     Composite NOX :      1.517     1.655     1.952     1.730     5.865    1.950     1.947    20.975      2.01     2.530
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* WILLIAMSBURG, ROADSCC 270, 45.98 MPH
* File 1, Run 9, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:

               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 46.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm
```

```
              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4991    0.3393    0.1145              0.0123    0.0008    0.0018    0.0293    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.347     1.290     1.897     1.443     0.874    0.601     0.601     0.427      1.81     1.357
     Composite CO  :     24.41     27.97     32.56     29.13     11.20     1.402     1.051     2.099      8.81    25.630
     Composite NOX :      1.405     1.539     1.842     1.615     5.387    1.372     1.364    13.282      1.61     1.898
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* WILLIAMSBURG, ROADSCC 290, 39.44 MPH
* File 1, Run 9, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 39.4
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4966    0.3377    0.1139              0.0134    0.0008    0.0018    0.0319    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.392     1.331     1.946     1.486     0.991    0.637     0.642     0.478      1.87     1.400
     Composite CO  :     23.32     26.74     31.33     27.90     11.46     1.442     1.085     2.241      9.51    24.444
     Composite NOX :      1.367     1.498     1.805     1.575     5.134    1.265     1.256    12.387      1.56     1.863
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* WILLIAMSBURG, ROADSCC 310, 25.0 MPH
* File 1, Run 9, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
                User supplied VMT mix.
  M583 Warning:
             The user supplied arterial average speed of 25.0
             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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                      Calendar Year:  2002
                              Month:  Jan.
                           Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1139              0.0133    0.0008    0.0018    0.0317    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.593     1.518     2.194     1.689     1.570    0.795     0.819     0.702      2.24     1.608
     Composite CO  :     22.77     26.12     30.91     27.33     16.92     1.775     1.368     3.419     13.32    24.041
     Composite NOX :      1.418     1.553     1.870     1.633     4.574    1.302     1.293    12.694      1.39     1.914
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* WILLIAMSBURG, ROADSCC 330, 12.9 MPH
* File 1, Run 9, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
                User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5071    0.3448    0.1163              0.0071    0.0008    0.0018    0.0169    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.122     1.958     2.729     2.152     3.126    1.086     1.146     1.116      3.03     2.128
     Composite CO  :     21.23     24.43     29.47     25.70     33.43     2.655     2.115     6.535     22.26    23.086
     Composite NOX :      1.279     1.395     1.711     1.475     4.107    1.659     1.654    13.475      1.23     1.596
  ---------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 10).  *
**************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\JAMES02.RDT
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 110, 57.43 MPH
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 57.4
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4849    0.3297    0.1113              0.0208    0.0008    0.0017    0.0487    0.0022    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.409     1.368     2.284     1.599     0.961    0.628     0.638     0.429      2.74     1.437
     Composite CO  :     28.74     33.18     42.44     35.52     17.98     1.567     1.238     2.670     16.78    30.142
     Composite NOX :      1.587     1.720     2.148     1.828     6.059    2.061     2.069    21.757      2.12     2.770
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 150, 45.28 MPH
* File 1, Run 10, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 45.3
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

```
 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4684    0.3184    0.1075              0.0303    0.0007    0.0017    0.0708    0.0022    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.464     1.436     2.386     1.675     1.071    0.658     0.671     0.472      2.35     1.472
     Composite CO  :     25.17     29.35     38.73     31.72     13.48     1.473     1.157     2.316     10.18    25.895
     Composite NOX :      1.469     1.596     2.031     1.706     5.520    1.404     1.405    13.439      1.69     2.540
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 170, 36.9 MPH
* File 1, Run 10, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 36.9
            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 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
  M 48 Warning:
               there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
```

Alcohol Blend RVP Waiver: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4800	0.3263	0.1101		0.0229	0.0007	0.0017	0.0534	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.526	1.494	2.466	1.739	1.272	0.714	0.732	0.553	2.47	1.564
Composite CO :	23.76	27.74	37.15	30.12	14.41	1.546	1.220	2.593	11.36	25.076
Composite NOX :	1.423	1.548	1.989	1.659	5.192	1.298	1.297	12.553	1.63	2.207

* #
* JAMES CITY, ROADSCC 190, 35.1 MPH
* File 1, Run 10, Scenario 4.
* #

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.1
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 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

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

LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
Calendar Year: 2002
Month: Jan.
Altitude: Low
Minimum Temperature: 36.1 (F)
Maximum Temperature: 54.0 (F)
Absolute Humidity: 65. grains/lb
Nominal Fuel RVP: 12.9 psi
Weathered RVP: 12.9 psi
Fuel Sulfur Content: 279. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Ether Blend Market Share: 0.700 Alcohol Blend Market Share: 0.300
Ether Blend Oxygen Content: 0.015 Alcohol Blend Oxygen Content: 0.035
Alcohol Blend RVP Waiver: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4660	0.3168	0.1069		0.0307	0.0007	0.0017	0.0717	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.542	1.509	2.486	1.756	1.331	0.730	0.750	0.576	2.51	1.560
Composite CO :	23.43	27.36	36.77	29.74	14.84	1.573	1.243	2.692	11.73	24.234
Composite NOX :	1.414	1.538	1.981	1.650	5.115	1.286	1.285	12.449	1.62	2.420

* #

* JAMES CITY, ROADSCC 210, 12.9 MPH
* File 1, Run 10, Scenario 5.
* #

```
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4875    0.3314    0.1118              0.0175    0.0008    0.0018    0.0408    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.274     2.156     3.384     2.466     3.713    1.175     1.244     1.223      3.82     2.352
     Composite CO  :     22.10     25.93     36.13     28.50     40.46     2.765     2.264     7.198     24.52    24.620
     Composite NOX :      1.347     1.455     1.910     1.570     4.233    1.722     1.726    13.872      1.32     2.008
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 230, 57.43 MPH
* File 1, Run 10, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 57.4
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4869    0.3310    0.1117              0.0197    0.0008    0.0018    0.0459    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.409     1.368     2.284     1.599     0.961    0.628     0.638     0.429      2.74     1.441
     Composite CO  :     28.74     33.18     42.44     35.52     17.98     1.567     1.238     2.670     16.78    30.236
     Composite NOX :      1.587     1.720     2.148     1.828     6.059    2.061     2.069    21.758      2.12     2.711
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 250, 56.83 MPH
* File 1, Run 10, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 56.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
```

```
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4895    0.3328    0.1123              0.0183    0.0008    0.0018    0.0428    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.412     1.372     2.290     1.604     0.961     0.628     0.638     0.429      2.69     1.447
     Composite CO  :     28.62     33.04     42.30     35.38     17.44     1.553     1.226     2.619     15.91     30.220
     Composite NOX :      1.582     1.715     2.143     1.823     6.031     1.997     2.005    21.226      2.10     2.614
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 270, 48.52 MPH
* File 1, Run 10, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 48.5
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4991    0.3393    0.1145              0.0125    0.0008    0.0018    0.0291    0.0030    1.0000
```

```
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.441     1.413     2.354     1.650     1.021    0.644     0.655     0.452      2.33     1.502
    Composite CO  :     25.74     29.99     39.37     32.36     13.78    1.470     1.155     2.304     10.02    27.801
    Composite NOX :      1.488     1.617     2.050     1.726     5.652    1.494     1.495    14.184      1.75     2.019
 ------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 290, 45.28 MPH
* File 1, Run 10, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 45.3
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
    Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                           Alcohol Blend RVP Waiver: No

         Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                 <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4966    0.3376    0.1139              0.0136    0.0008    0.0018    0.0317    0.0040    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.464     1.436     2.386     1.675     1.071    0.658     0.671     0.472      2.35     1.524
    Composite CO  :     25.17     29.35     38.73     31.72     13.48    1.473     1.157     2.316     10.18    27.122
    Composite NOX :      1.469     1.596     2.031     1.706     5.520    1.404     1.405    13.441      1.69     2.011
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 310, 35 MPH
* File 1, Run 10, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 35.0
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1139              0.0135    0.0008    0.0018    0.0315    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.543     1.510     2.487     1.756     1.335     0.731     0.751     0.578      2.51     1.608
     Composite CO  :     23.41     27.34     36.75     29.72     14.86     1.574     1.244     2.698     11.75    25.382
     Composite NOX :      1.413     1.538     1.981     1.650     5.110     1.285     1.284    12.443      1.62     1.918
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* JAMES CITY, ROADSCC 330, 12.9 MPH
* File 1, Run 10, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

* 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
```

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                   Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  36.1 (F)
             Maximum Temperature:  54.0 (F)
               Absolute Humidity:   65. grains/lb
                Nominal Fuel RVP:  12.9 psi
                   Weathered RVP:  12.9 psi
             Fuel Sulfur Content:  279. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.5071	0.3448	0.1164		0.0072	0.0008	0.0018	0.0168	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	2.274	2.156	3.384	2.466	3.711	1.175	1.244	1.223	3.82	2.360
Composite CO :	22.10	25.93	36.13	28.50	40.45	2.765	2.264	7.200	24.52	24.893
Composite NOX :	1.347	1.455	1.910	1.570	4.232	1.722	1.726	13.876	1.32	1.682

```
***************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                              *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 11).  *
***************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\YORK02.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:
                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)
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 110, 57.99 MPH
```

```
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 58.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

    Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
    Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                           Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:               <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4848    0.3297    0.1113              0.0208    0.0008    0.0017    0.0487    0.0022    1.0000
   ---------------------------------------------------------------------------------------------------------------------
  Composite Emission Factors (g/mi):
      Composite VOC :      1.509     1.409     2.318     1.638     0.964     0.665     0.646     0.429      2.66     1.503
      Composite CO  :     29.90     34.14     43.28     36.45     18.14     1.635     1.262     2.744     17.17    31.119
      Composite NOX :      1.655     1.759     2.175     1.864     6.131     2.198     2.144    22.474      2.13     2.856
   ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 150, 42.23 MPH
* File 1, Run 11, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 42.2
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4683    0.3184    0.1075              0.0303    0.0008    0.0017    0.0708    0.0022    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.598     1.508     2.459     1.748     1.137     0.714     0.699     0.497      2.26     1.569
     Composite CO  :      25.65     29.53     38.82     31.88     13.36     1.545     1.186     2.408     10.21    26.191
     Composite NOX :      1.516     1.611     2.038     1.719     5.444     1.406     1.365    13.157      1.65     2.546
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 170, 32.3 MPH
* File 1, Run 11, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 32.3
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
              Minimum Temperature:  36.1 (F)
```

```
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4799    0.3263    0.1101              0.0228    0.0008    0.0017    0.0534    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.704     1.607     2.600     1.858     1.452    0.803     0.793     0.619      2.46     1.709
     Composite CO  :     24.29     27.98     37.36     30.34     15.63     1.686     1.306     2.937     12.11    25.478
     Composite NOX :      1.490     1.584     2.016     1.693     5.048    1.339     1.299    12.619      1.57     2.255
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 210, 12.9 MPH
* File 1, Run 11, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

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

```
   VMT Distribution:    0.4874    0.3314    0.1119             0.0174    0.0008    0.0018    0.0408    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------

 Composite Emission Factors (g/mi):
     Composite VOC :      2.441     2.243     3.461     2.550     3.724     1.240     1.261     1.223      3.65     2.469
     Composite CO  :     23.10     26.66     36.78     29.22     39.72     2.844     2.289     7.271     24.02    25.408
     Composite NOX :      1.412     1.489     1.934     1.601     4.264     1.787     1.740    13.987      1.30     2.059
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 230, 57.99 MPH
* File 1, Run 11, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
            The user supplied freeway average speed of 58.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

        Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4868    0.3310    0.1117             0.0196    0.0008    0.0017    0.0459    0.0024    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.509     1.409     2.318     1.638     0.964     0.665     0.646     0.429      2.66     1.507
     Composite CO  :     29.90     34.14     43.28     36.45     18.14     1.635     1.262     2.744     17.17    31.217
     Composite NOX :      1.655     1.759     2.175     1.864     6.131     2.198     2.144    22.474      2.13     2.794
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #

* YORK, ROADSCC 250, 56.70 MPH
* File 1, Run 11, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M582 Warning:
```

```
           The user supplied freeway average speed of 56.7
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  36.1 (F)
             Maximum Temperature:  54.0 (F)
               Absolute Humidity:   65. grains/lb
                Nominal Fuel RVP:  12.9 psi
                   Weathered RVP:  12.9 psi
             Fuel Sulfur Content:  279. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4895    0.3328    0.1123              0.0183    0.0008    0.0018    0.0428    0.0017    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.517     1.418     2.331     1.649     0.965     0.665     0.646     0.429      2.55     1.518
     Composite CO  :      29.63     33.83     42.98     36.14     17.00     1.605     1.237     2.634     15.34    31.046
     Composite NOX :      1.645     1.749     2.165     1.854     6.070     2.057     2.006    21.331      2.07     2.664
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 270, 48.46 MPH
* File 1, Run 11, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 48.5
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4990    0.3393    0.1145              0.0125    0.0008    0.0018    0.0291    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.551     1.462     2.397     1.698     1.027     0.682     0.664     0.452      2.21     1.579
     Composite CO  :     26.74     30.77     40.04     33.11     13.52     1.523     1.168     2.327      9.73    28.635
     Composite NOX :      1.552     1.651     2.073     1.757     5.692     1.548     1.505    14.314      1.73     2.069
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 290, 42.23 MPH
* File 1, Run 11, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 42.2
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
```

```
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4966    0.3376    0.1140              0.0136    0.0008    0.0018    0.0317    0.0040    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.598     1.508     2.459     1.748     1.137    0.714     0.699     0.497      2.26     1.625
     Composite CO  :     25.65     29.53     38.82     31.88     13.36     1.545     1.186     2.408     10.21    27.434
     Composite NOX :      1.516     1.611     2.038     1.719     5.444    1.406     1.365    13.159      1.65     2.030
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 310, 35 MPH
* File 1, Run 11, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 35.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4965    0.3376    0.1139              0.0135    0.0008    0.0018    0.0315    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.661     1.566     2.536     1.811     1.341    0.773     0.761     0.578      2.39     1.691
```

```
    Composite CO  :     24.36     28.06     37.37     30.41     14.59     1.629     1.258     2.725     11.43    26.161
    Composite NOX :      1.478     1.572     2.004     1.681     5.149    1.334     1.294    12.572      1.60     1.969
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* YORK, ROADSCC 330, 12.9 MPH
* File 1, Run 11, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

   Ether Blend Market Share: 0.700       Alcohol Blend Market Share: 0.300
   Ether Blend Oxygen Content: 0.015     Alcohol Blend Oxygen Content: 0.035
                                          Alcohol Blend RVP Waiver: No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5071    0.3448    0.1164              0.0072    0.0009    0.0018    0.0168    0.0051    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      2.441     2.243     3.461     2.550     3.723    1.240     1.261     1.223      3.65     2.483
    Composite CO  :     23.10     26.66     36.78     29.22     39.70     2.844     2.289     7.274     24.02    25.721
    Composite NOX :      1.412     1.489     1.934     1.601     4.264    1.787     1.740    13.991      1.30     1.732
  ---------------------------------------------------------------------------------------------------------------------
********************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                                   *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 12).  *
********************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\GLOUC02.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:
                  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)
  M603 Comment:
                User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
                User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 130, 59 MPH
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
                User supplied VMT mix.
  M582 Warning:
             The user supplied freeway average speed of 59.0
             will be used for all hours of the day. 100% of VMT
             has been assigned to a fixed combination of freeways
             and freeway ramps for all hours of the day and all
              vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

     Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
```

```
              GVWR:               <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4377    0.2976    0.1005              0.0488    0.0009    0.0016    0.1118    0.0011    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.867     1.827     3.157     2.163     1.195    0.730     0.791     0.475      2.87     1.794
     Composite CO  :      35.94     42.18     60.25     46.75     26.91    1.755     1.533     3.270     21.98    36.046
     Composite NOX :      1.834     1.902     2.467     2.045     6.561    2.468     2.464    24.320      2.19     4.665
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 150, 50 MPH
* File 1, Run 12, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 50.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4682    0.3183    0.1075              0.0307    0.0009    0.0017    0.0704    0.0022    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.920     1.898     3.273     2.245     1.247    0.742     0.804     0.491      2.32     1.935
     Composite CO  :      32.53     38.49     56.68     43.08     19.31    1.615     1.408     2.686     11.54    34.390
     Composite NOX :      1.733     1.795     2.364     1.939     6.107    1.702     1.697    15.326      1.78     2.911
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 170, 35 MPH
* File 1, Run 12, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
              User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 35.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4798    0.3262    0.1102              0.0232    0.0010    0.0018    0.0531    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.070     2.048     3.492     2.413     1.656    0.847     0.921     0.639      2.51     2.133
     Composite CO  :     29.52     35.02     53.34     39.65     20.66     1.726     1.508     3.152     13.62    32.180
     Composite NOX :      1.654     1.709     2.289     1.856     5.469    1.430     1.424    13.149      1.62     2.440
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 190, 37 MPH
* File 1, Run 12, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 37.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
```

```
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4658    0.3167    0.1070              0.0311    0.0009    0.0017    0.0713    0.0055    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.046     2.025     3.459     2.387     1.575    0.827     0.898     0.611      2.46     2.073
     Composite CO  :     29.95     35.52     53.82     40.14     20.00     1.696     1.480     3.024     13.15    31.870
     Composite NOX :      1.664     1.719     2.297     1.865     5.561    1.445     1.439    13.272      1.64     2.697
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 210, 12.9 MPH
* File 1, Run 12, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4872    0.3313    0.1119              0.0177    0.0010    0.0018    0.0405    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      3.004     2.907     4.741     3.370     4.556    1.355     1.484     1.353      3.80     3.129
```

```
    Composite CO  :     28.50     34.08     53.89     39.08     56.24     2.984     2.634     8.409     28.40    32.794
    Composite NOX :      1.588     1.625     2.225     1.777     4.529     1.915     1.910    14.726      1.32     2.255
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 270, 50 MPH
* File 1, Run 12, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 50.0
           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 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
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
               Minimum Temperature:  36.1 (F)
               Maximum Temperature:  54.0 (F)
                 Absolute Humidity:   65. grains/lb
                  Nominal Fuel RVP:  12.9 psi
                     Weathered RVP:  12.9 psi
               Fuel Sulfur Content:  279. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4988    0.3392    0.1146              0.0126    0.0010    0.0018    0.0289    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.920     1.898     3.273     2.245     1.247     0.742     0.804     0.491      2.32     2.015
    Composite CO  :     32.53     38.49     56.68     43.08     19.32     1.615     1.408     2.686     11.54    36.138
    Composite NOX :      1.733     1.795     2.364     1.939     6.107     1.702     1.697    15.325      1.78     2.275
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 310, 27 MPH
* File 1, Run 12, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
           The user supplied arterial average speed of 27.0
           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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4963    0.3375    0.1140              0.0137    0.0010    0.0018    0.0313    0.0044    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.245     2.223     3.770     2.614     2.148    0.959     1.045     0.797      2.76     2.363
     Composite CO  :     29.65     35.18     53.96     39.92     26.29     1.944     1.703     4.064     16.39    33.305
     Composite NOX :      1.708     1.765     2.354     1.914     5.138    1.477     1.471    13.523      1.52     2.216
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* GLOUCESTER, ROADSCC 330, 12.9 MPH
* File 1, Run 12, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
```

```
               Nominal Fuel RVP:  12.9 psi
                  Weathered RVP:  12.9 psi
            Fuel Sulfur Content:  279. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.5069	0.3447	0.1164		0.0073	0.0010	0.0019	0.0167	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	3.004	2.907	4.741	3.370	4.555	1.355	1.484	1.354	3.80	3.156
Composite CO :	28.50	34.08	53.89	39.08	56.22	2.984	2.634	8.413	28.40	33.170
Composite NOX :	1.588	1.625	2.225	1.777	4.529	1.915	1.910	14.730	1.32	1.916

```
***************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                              *
* Input file: C:\02SIP\HAMPTON\2002\ANNUAL\WINTER\HAMP (file 1, run 13).  *
***************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\MOBILE62\HAMPTON\2002\ISLEW02.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:
               1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
               1.00     MYR sum not = 1. (will normalize)
  M603 Comment:
             User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: C:\MOBILE62\HAMPTON\NLEVNE.D
  M616 Comment:
             User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ISLE OF WIGHT, ROADSCC 130, 48 MPH
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
             User supplied VMT mix.
  M582 Warning:
          The user supplied freeway average speed of 48.0
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
    VMT Distribution:    0.4376    0.2976    0.1006              0.0485    0.0009    0.0016    0.1121    0.0011    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.981     1.967     3.654     2.393     1.182     0.749     0.853     0.483      2.31     1.935
     Composite CO  :     33.80     39.47     62.12     45.19     18.35     1.625     1.482     2.502     11.64    33.969
     Composite NOX :      1.769     1.814     2.497     1.986     5.857     1.695     1.692    17.517      1.76     3.820
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ISLE OF WIGHT, ROADSCC 150, 43 MPH
* File 1, Run 13, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 43.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
```

```
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4681    0.3183    0.1076              0.0305    0.0010    0.0017    0.0706    0.0022    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.006     1.992     3.707     2.425     1.276     0.776     0.883     0.518      2.33     2.055
     Composite CO  :      31.45     37.02     59.76     42.76     17.83     1.634     1.490     2.534     11.99    33.689
     Composite NOX :      1.706     1.745     2.437     1.920     5.636     1.541     1.538    13.509      1.67     2.749
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* ISLE OF WIGHT, ROADSCC 170, 38 MPH
* File 1, Run 13, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 38.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                    Calendar Year:  2002
                           Month:  Jan.
                        Altitude:  Low
              Minimum Temperature:  36.1 (F)
              Maximum Temperature:  54.0 (F)
                Absolute Humidity:   65. grains/lb
                 Nominal Fuel RVP:  12.9 psi
                    Weathered RVP:  12.9 psi
              Fuel Sulfur Content:  279. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4797    0.3262    0.1102              0.0230    0.0010    0.0018    0.0532    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.058     2.040     3.784     2.481     1.416     0.815     0.927     0.570      2.41     2.147
     Composite CO  :      30.44     35.89     58.68     41.64     18.62     1.682     1.534     2.720     12.83    33.416
     Composite NOX :      1.680     1.717     2.413     1.893     5.431     1.472     1.469    12.978      1.64     2.460
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* ISLE OF WIGHT, ROADSCC 190, 43 MPH
* File 1, Run 13, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # #
```

```
  M615 Comment:
               User supplied VMT mix.
  M583 Warning:
            The user supplied arterial average speed of 43.0
            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 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
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
                Minimum Temperature:  36.1 (F)
                Maximum Temperature:  54.0 (F)
                  Absolute Humidity:   65. grains/lb
                   Nominal Fuel RVP:  12.9 psi
                      Weathered RVP:  12.9 psi
                Fuel Sulfur Content:  279. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4657    0.3167    0.1070              0.0309    0.0010    0.0017    0.0715    0.0055    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      2.006     1.992     3.707     2.425     1.276     0.776     0.883     0.518      2.33     2.053
     Composite CO  :     31.45     37.02     59.76     42.76     17.83     1.634     1.490     2.534     11.99    33.567
     Composite NOX :      1.706     1.745     2.437     1.920     5.636     1.541     1.538    13.510      1.67     2.761
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* ISLE OF WIGHT, ROADSCC 210, 12.9 MPH
* File 1, Run 13, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\HAMPTON\LOCAL.TXT

  Reading User Supplied ROADWAY VMT Factors

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

 LEV phase-in data read from file C:\MOBILE62\HAMPTON\NLEVNE.D
                     Calendar Year:  2002
                             Month:  Jan.
                          Altitude:  Low
                 Minimum Temperature:  36.1 (F)
                 Maximum Temperature:  54.0 (F)
                   Absolute Humidity:   65. grains/lb
                    Nominal Fuel RVP:  12.9 psi
                       Weathered RVP:  12.9 psi
                 Fuel Sulfur Content:  279. ppm

                 Exhaust I/M Program:  No
                    Evap I/M Program:  No
                         ATP Program:  No
                    Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4872	0.3313	0.1119		0.0176	0.0010	0.0018	0.0407	0.0085	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	3.045	2.922	5.161	3.487	4.230	1.352	1.532	1.292	3.75	3.192
Composite CO :	28.80	34.25	58.84	40.46	53.19	2.982	2.714	7.715	28.22	33.461
Composite NOX :	1.600	1.619	2.344	1.802	4.390	1.941	1.939	14.385	1.32	2.257