Connecticut Department of Transportation

Council of Governments of the Central Naugatuck Valley
Greater Bridgeport and Valley Metropolitan Planning Organization
Housatonic Valley Council of Elected Officials
South Central Regional Council of Governments
South Western Regional Planning Agency

PM 2.5 Air Quality Conformity Determination

of the
2007 Regional Transportation Plans and the
FY 2010-2013 Transportation Improvement Programs
for the Connecticut portion of
the NY-NJ-CT
$PM_{2.5}$ Nonattainment Area

September 2009 Revised

Note: The five Connecticut MPOs (COGCNV, GB&V MPO, HVCEO, SCRCOG and SWRPA) are part of the larger NY-NJ-CT $PM_{2.5}$ Nonattainment Area and this document includes the documentation of the regional analysis for the entire Connecticut portion of the nonattainment area, as well as documentation and information on the processes and procedures undertaken by ConnDOT, coordinator for the five Connecticut MPOs.

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Regional Emissions Analysis

1) OVERVIEW

In March 2007, the Metropolitan Planning Organizations (MPOs) in Connecticut proposed to update their Long Range Plans (LRPs). These revisions to Connecticut's LRPs required a new multi-state transportation conformity determination for fine particulate matter ($PM_{2.5}$). Therefore, the November 2006 NY-NJ-CT PM2.5 non-attainment area conformity determination was revised to reflect emission projections from the new, or revised, non-exempt projects in Connecticut's 2007-2035 LRPs. On April 17, 2007, the Connecticut Department of Environmental Protection (CTDEP) submitted to the U.S. Department of Environmental Protection (EPA) its State Implementation Plan (SIP) Revision for Establishment of Interim Progress for the Fine Particle National Ambient Air Quality Standard (NAAQS) and early fine particulate ($PM_{2.5}$) transportation conformity emission budgets. The SIP revision identified year 2009 annual direct $PM_{2.5}$ and annual nitrogen oxides (NOx) motor vehicle emissions budgets associated with the Interim/Early Progress SIP. The annual 2009 motor vehicle emissions budgets for the Connecticut portion of the New York-Northern New Jersey-Long Island, NY-NJ-CT $PM_{2.5}$ Area are 360 tons per year of direct $PM_{2.5}$ and 18,279 tons per year of NOx.[1] These emissions budgets were found adequate as of June 20, 2007 and were approved into the Connecticut SIP on August 30, 2007

The annual 2009 motor vehicle emissions budgets for the Connecticut portion of the New York-Northern New Jersey-Long Island, NY-NJ-CT PM $_{2.5}$ Area were determined adequate through a May 24, 2007 letter Anne E. Arnold, Manager Air Quality Planning Unit, EPA New England Regional Office to Anne Gobin, Chief CTDEP and a June 5, 2009 Federal Register Notice of Adequacy. The adequacy process made the MVEBs effective June 20, 2007 for transportation conformity determinations.

The annual 2009 motor vehicle emissions budgets for the Connecticut portion of the New York-Northern New Jersey-Long Island, NY-NJ-CT PM $_{2.5}$ Area were approved into the Connecticut SIP through a direct final rulemaking Federal Register on August 30, 2007 (72 FR 50029). This SIP element "2009 Early Progress Direct PM $_{2.5}$ and NOx Motor Vehicle Emission Budgets for Transportation Conformity Purposes; Connecticut; New York-Northern New Jersey-Long Island, NY-NJ-CT PM $_{2.5}$ Area" became effective on October 29, 2007.

The MVEBs are 360 tons per year of direct PM $_{2.5}$ and 18, 279 tons per year of NOx.

This report was prepared to document the emissions analysis that was completed to evaluate Fiscal Year 2010 Conformity of the Statewide Transportation Improvement Program (STIP) and the Regional Long Range Transportation Plans (LRP) to the State Implementation Plan (SIP) for air quality. This submittal incorporates the FY 2010 - 2013 STIP and LRPs from Connecticut's Regional Planning Organizations (RPO), and revised MOBILE emissions budgets.

The report is submitted to satisfy the requirements of the SIP, as revised.

[1] Letter from U.S. EPA to Anne Gobin, Chief CTDEP, dated May 24, 2007.

2) PURPOSE AND NEED

a - What is Transportation Conformity?

Transportation Conformity is the process, established by joint guidance from the United States Department of Transportation (USDOT) and the United States Environmental Protection Agency (EPA) that ensures that transportation investments will contribute to improving air quality in areas where concentrations of certain pollutants exceed national air quality standards. Transportation conformity as it currently exists emerged from the passage of environmental and transportation legislation in the early 1990s (Clean Air Act Amendments of 1990 and the Intermodal Surface Transportation Efficiency Act of 1991). EPA promulgated a transportation conformity rule initially in 1993. The latest amendment to the transportation conformity rule, **Transportation Conformity Rule, Amendments to Implement Provisions Contained in the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users,** Final Rule was published January 24, 2008 (73 FR 4420).

Other recent conformity rules related to particulate matter include: **$PM_{2.5}$ and PM_{10} Hot-Spot Analyses in Project-Level Transportation Conformity Determinations for the New $PM_{2.5}$ and Existing PM_{10} National Ambient Air Quality Standards;** Final Rule March 10, 2006 (71 FR 12468); **Transportation Conformity Rule Amendments for the New $PM_{2.5}$ National Ambient Air Quality Standard: $PM_{2.5}$ Precursors;** Final Rule May 6, 2005 (70 FR 24280), [*Note: On June 1, 2005, (70 FR 31354), EPA published a Final Rule correction effective June 6, 2005 for Transportation Conformity Rule Amendments for the New $PM_{2.5}$ National Ambient Air Quality Standard: $PM_{2.5}$ Precursors*]; and, **Transportation Conformity Rule Amendments for the New 8-hour Ozone and $PM_{2.5}$ National Ambient Air Quality Standards and Miscellaneous Revisions for Existing Areas; Transportation Conformity Rule Amendments: Response to Court Decision and Additional Rule Changes;** Final Rule July 1, 2004 (69 FT 40004).

Recently EPA proposed **Transportation Conformity Rule $PM_{2.5}$ and PM_{10} Amendments,** Proposed Rule May 15, 2009 (74 FR 23024).

Transportation Conformity rulemaking actions can be found on EPA's Office of Transportation and Air Quality web site at URL address:
http://www.epa.gov/otaq/stateresources/trasconf/conf-regs.htm

Transportation conformity works in the following way:

- EPA establishes National Ambient Air Quality Standards (NAAQS) based on public health research. The standards set maximum concentrations of six criteria pollutants in the ambient (outdoor) air.

- EPA designates parts of the country where the NAAQS are exceeded as a "non-attainment area." States that have non-attainment areas within their boundaries are required to submit State Implementation Plans (SIPs) to EPA to demonstrate how the non-attainment areas will improve their air quality and meet the NAAQS in the timeframe specified by the Clean Air Act.

- Non-attainment areas must conform their transportation plans, programs and projects to their area's motor vehicle emissions budget that is contained within its SIP. If a state does not yet have SIP emissions budgets in place, interim emission tests must be passed to show conformity.

Under the Conformity Rules, the following test for $PM_{2.5}$ and NOx must be met:

- TEST: Emissions from future Action Scenarios must be less than the 2009 Transportation emission budgets

To do this, MPOs use a model created by the EPA that applies emission factors to the region's vehicle fleet. These emission factors are combined with vehicle miles traveled data which is generated by an MPO's travel demand model. The travel demand model uses the region's highway network, estimated travel conditions and demographic data to estimate where trips begin and end.

It is important to note that the transportation conformity determination is based on the mix of new and existing projects and the current infrastructure. Some projects, particularly highway capacity expansions, may be individually deleterious to air quality but are offset by beneficial initiatives such as new transit projects and engineering improvements that mitigate local congestion or reduce vehicular travel. The conformity regulations recognize this balance between projects that increase and reduce emissions by requiring that MPOs demonstrate that the overall set of investments moves the region toward cleaner air, in keeping with EPA policies.

b - Background on Fine Particulate Matter ($PM_{2.5}$)

Fine particulate matter, also called $PM_{2.5}$, is a mixture of microscopic solids and liquid droplets suspended in air, where the size of the particles is equal to or less than 2.5 micrometers (about one-thirtieth the diameter of a human hair). Fine particles can be emitted directly (such as smoke from a fire, or as a component of automobile exhaust) or be formed indirectly in the air from power plant, industrial and mobile source emissions of gases such as sulfur dioxide and nitrogen oxides.

The health effects associated with exposure to fine particles are serious. Scientific studies have shown significant associations between elevated fine particle levels and premature death. Effects associated with fine particle exposure include aggravation of respiratory and cardiovascular disease (as indicated by increased hospital admissions, emergency room visits, absences from school or work, and restricted activity days), lung disease, decreased lung function, asthma attacks, and certain cardiovascular problems such as heart attacks and cardiac arrhythmia. While fine particles are unhealthy for anyone to breathe, people with heart or lung disease, asthmatics, older adults, and children are especially at risk.

c - $PM_{2.5}$ National Ambient Air Quality Standards

In July 1997, EPA issued NAAQS for $PM_{2.5}$, designed to protect the public from exposure to $PM_{2.5}$ at levels that may cause health problems. The standards include an annual standard set at 15 micrograms per cubic meter, based on the three year average of annual $PM_{2.5}$ concentrations and a 24-hour standard of 65 micrograms per cubic meter based on the three-year average of 24-hour concentrations. In general, areas need to meet both standards to be considered to attain $PM_{2.5}$ NAAQS.

Areas not meeting the $PM_{2.5}$ NAAQS are called $PM_{2.5}$ non-attainment areas. These areas have had or contributed to $PM_{2.5}$ levels higher than allowed under the NAAQS. Non-attainment areas are subject to transportation conformity, through which local transportation and air quality officials coordinate planning efforts to ensure that transportation projects do not hinder an area's ability to reach its clean air goals. Transportation conformity requirements become effective one year after an area is designated as a non-attainment area.

EPA issued official designations for the $PM_{2.5}$ standard on December 17, 2004 and made modifications in April 2005. On April 5, 2005, designations under the national air quality standards for fine particle pollution or $PM_{2.5}$ became effective. Therefore, by April 4, 2006, all $PM_{2.5}$ non-attainment areas were required to implement transportation conformity. Under the EPA designation, non-attainment areas are required to meet the $PM_{2.5}$ NAAQS as soon as possible, but no later than 2010. EPA may grant attainment date extensions of up to five years in areas with more severe $PM_{2.5}$ problems and where emissions control measures are not available or feasible.

EPA has determined that meeting the $PM_{2.5}$ NAAQS nationwide will annually prevent at least 15,000 premature deaths; 75,000 cases of chronic bronchitis; 10,000 hospital admissions for respiratory and cardiovascular disease; hundreds of thousands of occurrences of aggravated asthma; and 3.1 million person-days of missed work due to symptoms related to particle pollution exposure.

States with designated $PM_{2.5}$ non-attainment areas had to submit SIPs that outline how they will meet the $PM_{2.5}$ NAAQS within three years of April 5, 2005. CTDEP submitted Connecticut's SIP to EPA on November 18, 2008.

On April 17, 2007 Connecticut Department of Environmental Protection submitted a SIP Revision for 2009 Early Progress Direct $PM_{2.5}$ and NO_x Motor Vehicle Emission Budgets for Transportation Conformity Purposes; Connecticut; New York-Northern New Jersey-Long Island, NY-NJ-CT $PM_{2.5}$ Area. (See http://www.regulations.govsearch on docket number EPA-R01-OAR-2007-0373).

On November 18, 2008 Connecticut Department of Environmental Protection submitted a SIP Revision "Attainment Demonstration for the 1997 Annual $PM_{2.5}$ National Ambient Air Quality Standard for the Connecticut portion of the New York-Northern New Jersey-Long Island, NY-NJ-CT $PM_{2.5}$ Nonattainment Area". EPA determined Connecticut's $PM_{2.5}$ attainment demonstration SIP to be administratively and technically complete on January 8, 2009.

3) CONNECTICUT $PM_{2.5}$ NON-ATTAINMENT AREA

The New Jersey – New York – Connecticut multi-state non-attainment area was designated by EPA because this region's air quality fails to meet the annual $PM_{2.5}$ NAAQS. As EPA New England has determined the MOBILE6.2 2009 motor vehicle emissions budgets submitted on April 17, 2007 to be adequate for transportation conformity purposes, the emissions analysis in this report will be limited to these areas only and the budgets effective as of June 20, 2007.

The Metropolitan Planning Organizations (MPOs) within this area are as follow:

Council of Governments of the Central Naugatuck Valley (COGCNV)
Greater Bridgeport and Valley Metropolitan Planning Organizations (GB&V MPO)
Housatonic Valley Council of Elected Officials (HVCEO)
South Central Regional Council of Governments (SCRCOG)
South Western Regional Planning Agency (SWRPA)

Figure 1 below shows the Connecticut counties included in the non-attainment area.

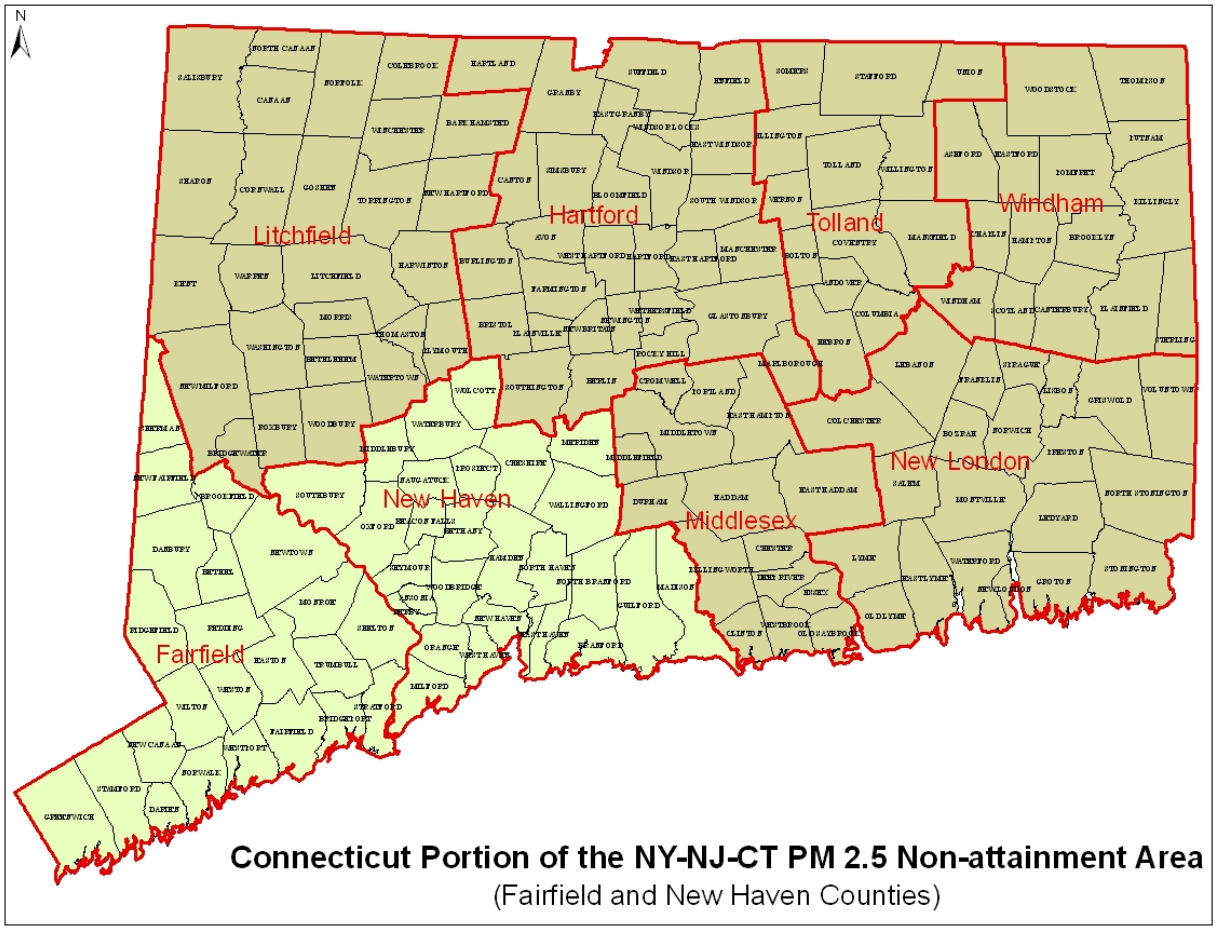

Figure 1: Connecticut Portion of the NY-NJ-CT PM $_{2.5}$ Non-attainment Area

4) INTERAGENCY CONSULTATION

The 2010-2013 STIP was emailed to all MPO's, rural regional planning organizations, FHWA, FTA, EPA, and CTDEP for review of the projects' Air Quality coding, analysis years to be modeled, and comments on the latest planning assumptions to be utilized for this conformity. All comments on specific projects and planning assumptions were addressed prior to an Interagency Consultation Group conference call on September 2, 2009. During the conference

call, EPA stated that various input files to the emissions model must be updated prior to the next conformity determination.

It was agreed upon that the 2002 vehicle registration data file would be adequate for this Conformity Determination, but would be updated prior to the next conformity determination. The data file was not available for use in the emissions model until December 2004. EPA also recommended that additional input files to the emissions model be updated prior to the next Conformity Determination. CTDOT agreed that the files will be updated.

A copy of the Interagency Consultation Conference call minutes is included in Appendix A.

The final emissions analysis was prepared and the report was distributed for the 30-day public comment period..

5) PUBLIC CONSULTATION

As required by the Final Rule, the transportation conformity process must include public consultation on the emissions analysis and conformity determination for PM2.5 determinations. This includes posting of relevant documentation and analysis on a "clearinghouse" webpage maintained through the interagency consultation process. All MPOs in the Connecticut $PM_{2.5}$ nonattainment area must provide thirty-day public comment periods and address any comments received. For this PM2.5 transportation conformity determination, all Connecticut MPOs will hold a thirty-day public comment period.

6) $PM_{2.}$ EMISSIONS ANALYSIS

As stated above, states must submit $PM_{2.5}$ SIPs no later than April 5, 2008. Effective June 20, 2007, EPA determined that the SIP Revision for Establishment of Interim Progress for the Fine Particle National Ambient Air Quality and early fine particle transportation conformity emissions budgets associated with the Interim/Early Progress SIP are adequate. The budgets established are detailed in the table on the following page.

Adequate Motor Vehicle Emissions Budgets

	Direct $PM_{2.5}$ (tons per year)	NOx (tons per year)
Year 2009 MVEBs for the Connecticut portion of the New York – Northern New Jersey – Long Island, NY-NJ-CT $PM_{2.5}$ Area.	360	18,279

The $PM_{2.5}$ budget emissions are the amount to which projected future emissions resulting from implementation of Plans and TIPs will be compared.

EPA regulations require that emissions analysis be conducted for specific analysis years. Section 93.119(g) of the Final Rule states that these analysis years must include:

- A near-term year (one to five years in the future)
- The last year of the plan
- An intermediate year or years such that the analysis years are no more than 10 years apart

The near-term year had been selected during the Interagency Consultation process as 2010. Furthermore, because this non-attainment area includes multiple MPOs, the last year of all of the MPOs' Plans must be included as analysis years. Within the Connecticut $PM_{2.5}$ non-attainment area, the plan horizon year is 2035. Intermediate years of 2020 and 2030 have been selected so that no two-analysis years are more than 10 years apart. Therefore, the analysis years are 2010, 2020, 2030 and 2035.

7) COMPONENTS OF THE CONNECTICUT $PM_{2.5}$ REGIONAL EMISSIONS ANALYSIS

$PM_{2.5}$ emissions can result from both direct and indirect sources. Gasoline and diesel on-road vehicles emit both direct $PM_{2.5}$ and other gases that react in the air to form $PM_{2.5}$. Direct $PM_{2.5}$ emissions can result from particles in exhaust fumes, from brake and tire wear, from road dust kicked up by vehicles, and from highway and transit construction. Indirect $PM_{2.5}$ emissions can result from one or more of several exhaust components, including nitrogen oxides (NOx), volatile organic compounds (VOCs), sulfur oxides (SOx), and ammonia (NH_3).

For the regional analysis of direct $PM_{2.5}$ emissions, EPA has ruled that both exhaust and brake/tire wear must be included. However, EPA has also ruled that emissions analysis for direct $PM_{2.5}$ should include road dust only if road dust is found to be a significant contributor to $PM_{2.5}$ by either the EPA Regional Administrator or a state air quality agency. For the Connecticut $PM_{2.5}$ non-attainment area, neither the EPA Regional Administrators nor the state air quality agency have found that road dust is a significant $PM_{2.5}$ contributor.

For the regional analysis of indirect $PM_{2.5}$ emissions (also called $PM_{2.5}$ precursors), EPA has identified four potential transportation-related $PM_{2.5}$ precursors: NOx, VOCs, SOx, and NH_3. The only indirect $PM_{2.5}$ component that needs to be considered in the Connecticut $PM_{2.5}$ non-attainment area is NOx.

8) ANNUAL INVENTORIES FOR $PM_{2.5}$

Because the multi-state $PM_{2.5}$ non-attainment area does not meet the annual $PM_{2.5}$ NAAQS, the emissions analysis for $PM_{2.5}$ must consider annual emissions. Guidance from EPA (dated August 10, 2005) presents four possible options for developing an annual inventory before a SIP is developed: using a single air quality model output to represent daily emissions for the entire year; running the air quality model to represent two seasons; running the air quality model to represent four seasons; or running the air quality model to represent twelve individual months.

Analysis showed that there is a negligible difference between the two-season approach and the twelve-month approach for the Connecticut $PM_{2.5}$ non-attainment area and was therefore determined that the two season approach would be used.

9.) VMT AND EMISSIONS ANALYSIS

VMT estimates were developed from ConnDOT's statewide network-based travel model supplemented by off-model analysis. The 2009 travel model network, to the extent practical, represents all state highways and major connecting non-state streets and roads as well as the rail, local bus and express bus systems that currently exist. Future highway networks for 2010, 2012, 2015 and 2020 and transit networks for 2012, 2015, 2020 and 2030 were built by adding STIP, TIP and LRP projects (programmed for opening after 2009) to the 2009 network. These networks were used to run travel models and conduct emissions analysis for the years 2009, 2010, 2020, 2030 and 2035. Table 1 lists the projects for each model analysis year for which network changes were required.

TABLE 1: LIST OF NETWORK CHANGES

2010 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
CAPITOL			
0039-0088 CT 20 EAST GRANBY WIDENING	Vicinity of Holcomb Road to vicinity of Center Road. Matches existing 4 lanes section to east. BID 02-22-06, CCD 5-29-2010, TIP.	1/1	2/2
CENTRAL CONNECTICUT			
0017-0137 CT 72 BRISTOL RELOCATION	Relocation of Rt. 72 from end of Rt. 72 Expressway to Rt. 229 in Bristol. BID 05-31-06, CCD 10-31-10, TIP.	1/1	2/2
GREATER BRIDGEPORT			
0301-0060 NEW HAVEN LINE FAIRFIELD NEW RAIL STATION	Joint development RR station, access road, and high level platforms. Amended TIP. BID 12-13-06, CCD 6-15-10, TIP.	N/A	
HOUSATONIC VALLEY			
0018-0113 US 7 BROOKFIELD NEW ARTERIAL	Brookfield Bypass BID 12-20-06, CCD 11-8-09, TIP	0	2/2
SOUTH CENTRAL			
0092-0547 WHALLEY AVE. NEW HAVEN WIDENING	Between Emerson Ave and Amity Road, BID 07-26-06, CCD 11-1- 2010, TIP.	1/1	2/2

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2010 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	LANES TO
SOUTHEASTERN			
0071-0092 ROUTE 2 LEDYARD WIDENING	From Rt. 164 To east of Rt. 214. STC Project. CCD 8-2009	1/1	2/2
0103-0242 ROUTE 82 NORWICH WIDENING	Rte. 82 Improvements at I-395 Long Range Plan. CCD 12-15-10	1/1	2/2
0103-0255 ROUTE 82 NORWICH WIDENING	Widen after Old Salem Road #1 to Old Salem Road #2 Improvements at I-395 Long Range Plan, CCD 12-15-10	1/1	2/2
SOUTH WESTERN			
0102-0305 US 7 NORWALK MAJOR WIDENING	Route 7 from Grist Mill Road in Norwalk to Rt. 33 in Wilton. BID 01-07-09, CCD 12-01-10, Long Range Pan	1/1	2/2
0161-0118 US 7 WILTON MAJOR WIDENING	Major widening of Route 7 from Wolf Pit Rd. to the North junction of Rt's. 33 & 106. BID 01-18-06, CCD 4-23-2010, TIP.	1/1	2/2
0161-0124 US 7 WILTON MAJOR WIDENING	From Old Danbury Road to Olmstead Rd. BID 01-18-06, CCD 4-23-2010, TIP.	1/1	2/2

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2012 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
HOUSATONIC VALLEY			
0034-0260 US 7 DANBURY RECONSTRUCTION	From Stars Plain Rd. to 0.4 mile south of Wooster Heights Rd. Phase 2- project with 0034-315 for modeling BID 10-09-07, CCD 11-18-11, TIP.	1/1	2/2
0034-0308 I-84 DANBURY, NEWTOWN SOUTHBURY	Interchange 5 and 11 Long Range Plan CCD 2011	3/3 2/2	4/4 3/3
0034-0313 I-84 DANBURY, NEWTOWN SOUTHBURY	Interchanges 6 Long Range Plan CCD 2012	3/3	4/4
0034-0330 I-84 DANBURY OPERATIONAL LANE	Operational lanes on I-84 EB/WB between Exit 1 and Exit 2 CCD 8-1-11, TIP	3/3	4/4
SOUTH CENTRAL			
0092-0618 I-95 NEW HAVEN BRIDGE REPLACEMENT	Brkout "Q" Brg Project 0092-0531, Construction NB Approach and River Piers. 9-21-2011, TIP	VARIES	.
0092-0619 I-95 NEW HAVEN UPGRADE EXPRESSWAY	Breakout of Project No.0092-0531, the reconstruction of the I-91/I-95/Route 34 interchange Associated with Q-Bridge Replacement. CCD 11-30-11, TIP.	3/3	5/5
0098-0093 ROUTE 22 / 80 NORTH BRANFORD MAJOR WIDENING	Just east of Tilcon RR bridge to easterly leg of Route 22. BID 05-04-06, CCD 11-1-12, TIP.	1/1	2/2

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2012 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	 TO
SOUTH WESTERN			
0135-XXXX STAMFORD TRANSITWAY STAMFORD WIDENING/HOV	Phase I from State and Elm Street to the Stamford Train Station. Phase II from East Main Street (RT 1) to Elm Street. Two HOV lanes plus four lanes. Estimated CCD 12-1-2012. Long Range Plan	Varies	3/3

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2015 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
CAPITOL			
0063-XXXX I84/FLATBUSH AVE. HARTFORD INTERCHANGE	Rebuild interchange from half to full. Long Range Plan. EST CCD 3-30-2014	N/A	
0076-0193 I-84 MANCHESTER OPERATIONAL LANE	Construct eastbound operational lane between Exits 63 and 64/65. BID 08-27-08, CCD 1-1-2013, TIP.	3/3	4/3
0155-0156 WEST HARTFORD I-84 OPERATIONAL LANES	Operational Lanes between Exits 40 & 42 CCD 12-1-2015	3/3	4/4
0171-0305 NEW BRITAIN- HARTFORD BUSWAY	From New Britain to Hartford, District 1 funding Hartford and New Britain. TIP CCD 12-31-13	N/A	
CENTRAL CONNECTICUT			
0088-0160 HART STREET NEW BRITAIN NEW ROAD	Extension from South Main Street to Arch Street. Congressional earmark Est. Completion After 1-1-2013, TIP.	0	2/2
0171-0305 NEW BRITAIN- HARTFORD BUSWAY	From New Britain to Hartford, District 1 funding Hartford and New Britain. Long Range Plan CCD 12-31-13	N/A	

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2015 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
CENTRAL NAUGATUCK			
0151-0273 I-84 WATERBURY UPGRADE EXPRESSWAY	Reconstruct Expressway and Operational Improvements including Interchanges. Hamiton Ave. to opposite Pierpoint BID 02-22-06, CCD 1-1-2015, TIP.	2/2	3/3
0151-0296 WATERBURY WIDENING	Homer St. / Chase Ave Waterville St. to Nottingham Terrace Long Range Plan CCD 1-9-2013	1/1	2/2
0151-0297 WATERBURY WIDENING	Chase Ave. Nottingham Terrace to North Main Street Long Range Plan CCD 1-12-2013	1/1	2/2
SOUTH CENTRAL			
0014-XXXX RTE 1 BRANFORD WIDENING	West Main St to Leetes Island Rd. East Haven Town Line to Alps Mt. Rd Rte 146 to Cedar St Long Range Plan	2/2	2/3
0092-0532 I-95 NEW HAVEN BRIDGE REPLACEMENT	Q Bridge Replacement and demolition; Contract 'B' CCD 6-30-15, TIP.	3/3	5/5
0092-0532 I-95 NEW HAVEN BRIDGE REPLACEMENT	Q Bridge Replacement and demolition; Contract 'B' CCD 6-30-15, TIP.	3/3	5/5
0156-XXXX METRO NORTH WEST HAVEN/ORANGE NEW RAIL STATION	New Rail Station in West Haven / Orange. Long Range Plan. Est. 1-1-2013.	NA	

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2015 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	LANES TO
SOUTHEASTERN			
0055-XXXX ROUTE 2A MONTVILLE, PRESTON BRIDGE WIDENING	From the four lane section of Rt 2A to Rt 12. Long Range Plan CCD 2015	1/1	2/2
0170-XXXX RT 11 SALEM, EAST LYME NEW ARTERIAL (EXPRESSWAY)	From the present terminus of Rt. 11 to the I-95/ I-395 interchange. Congressional earmark for design Long Range Plan. CCD 2015	0	2/2
0170-XXXX ROUTE 2 PRESTON,LEDYARD, NORTH STONINGTON	From touchdown of the Rt 2a Bypass to the existing four lane section of Rt 2 in North Stonington; STC project in Ledyard will be four lanes. Long Range Plan	1/1	2/2
WINDHAM			
0077-0215 HILLSIDE ROAD MANSFIELD NEW ROAD	Extension of existing Hillside Road to Route 44. Congressional earmark, Estimated before 2014, TIP.	0	1/1

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2020 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
CAPITOL			
0051-XXXX RT 4 FARMINGTON ADD LANE	Add EB Lane in Farmington Center. Long Range Plan.	1/1	2/1
0051-0259 I84/RT4/RT6 FARMINGTON INTERCHANGE BUSWAY	Interchange improvements at Routes 4, 6, and 9 including a new EB C/D Roadway BID 12-31-08, 1-1-2018, TIP.	N/A	
CENTRAL CONNECTICUT			
0109-XXXX PLAINVILLE ADD LANE	New Britain Ave. Cooke St. to Hooker St. Long Range Plan.	1/1	2/2
CENTRAL NAUGATUCK VALLEY			
0170-XXXX I-84 WATERBURY-WEST ADD LANES	0174-H152 is the EIS for widening From Highland Ave in Waterbury (Int. 18) to the Southbury/Newtown Town Line, Long Range Plan.	2/2	3/3
GREATER BRIDGEPORT			
0015-0288 SEAVIEW AVE . BRIDGEPORT MAJOR WIDENING	From I-95 interchange to Route 1	1/1	2/2
0015-XXXX ROUTE 8/25 BRIDGEPORT INT MODIFICATION	Modify the approach to I-95 by closing the on ramp from Washington Ave. and off ramp to Myrtle Ave. Long Range Plan	NA	

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2020 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
GREATER BRIDGEPORT (CONT'D)			
0084-XXXX Route 111 MONROE MAJOR WIDENING	Purdy Hill Road to Cross Hill Road. Long Range Plan.	1/1	2/2
0138-XXXX I-95 STRATFORD INT MODIFICATION	Consolidate Interchange 31 and Interchange 32. Long Range Plan.	NA	
0138–XXXX I-95 STRATFORD	Convert Interchange 33 to a full interchange. Project No. 138-223 is a study to assess the impact. The modification is in the region's Long Range Plan.	N/A	
0144-XXXX ROUTE 25 TRUMBULL, MONROE WIDENING	From end of expressway Rt. 25 to Newtown TL; project continues past TL. Long Range Plan.	1/1	2/2
0144-XXXX ROUTE 25 TRUMBULL INTERSECTION	Construct Partial Interchange at Whitney Ave.; Long range Plan.	NA	
0144-XXXX ROUTE 8 TRUMBULL WIDENING	Widen NB Mainline from the split with Route 25 to vicinity of Interchange 7. Long Range Plan.	2/2	3/3
HOUSATONIC VALLEY			
0018-XXXX US 202 BROOKFIELD WIDENING	South of Old State Road to Rt. 133. Long Range Plan.	1/1	2/2
0034-H036 SR 806 DANBURY MAJOR WIDENING	From Byron St. in Danbury to Plumtrees St. in Danbury; Long Range Plan.	1/1	2/2

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2020 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	 TO
HOUSATONIC VALLEY (CONT'D)			
0034-0288 ROUTE 6 DANBURY ADD LANES	From Kenosia Avenue easterly to I-84 (Exit 4) Long Range Plan	1/1	2/2
0034-XXXX I-84 DANBURY,NEWTOWN SOUTHBURY	Between Interchanges 3 and 4. Between Interchanges 12 and 13 Long Range Plan	3/3	4/4
0034-XXXX ROUTE 37 DANBURY ADD LANES	From Route 53(Main Street) to northerly to I-84 (Exit 6) Long Range Plan	1/1	2/2
0034-XXXX ROUTE 37 DANBURY ADD LANES	From Route I-84 (Exit 6) Northerly to Jeanette Street Long Range Plan	1/1	2/2
0034-XXXX ROUTE 6 DANBURY ADD LANES	From I-84 (Exit 2) East to Kenosia Avenue Long Range Plan	1/1	2/2
0034-XXXX DANBURY ADD LANES	Widen Kenosia Ave from Backus Avenue to Vicinity of Lake Kenosia Long Range Plan	1/1	2/2
0034-XXXX DANBURY ADD LANES	Widen Backus Avenue from Kenosia Ave to Miry Brook Road Long Range Plan	1/1	2/2
0034-XXXX ROUTE 53 DANBURY ADD LANES	From South Street northerly to Boughton Street; Long Range Plan.	1/1	2/2
0096-XXXX NEWTOWN NEW ROAD WIDENING	New Road across Old Fairfield Hills Hospital Campus, From Route 6 South to Route 860 Long Range Plan	0/0	1/1

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2020 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
MIDSTATE			
0112-XXXX ROUTE 66 PORTLAND	From Sand Hill Road to east of the Riverside Motel (East of Middle Haddam Road) Long Range Plan	1/1	2/2
SOUTH CENTRAL			
0014-XXXX I-95 BRANFORD,GUILFORD MADISON WIDENING	Cedar Street Branford to Rt. 79 in Madison (EAST SHORE). Long Range Plan.	2/2	3/3
0014-XXXX RTE 1 BRANFORD WIDENING	Widening of East Haven TL to I-95 Exit 55 Cedar St to East Main Long Range Plan.	Varies	Varies
0059-XXXX RTE 1 GUILFORD WIDENING	State Street to Tanner Marsh Rd. Long Range Plan.	1/1	1/2
0061-XXXX US 5 HAMDEN,NO.HAVEN WIDENING	Olds St (Hamden) to Sackett Point Rd. Long Range Plan.	1/1	2/2
0061-XXXX RTE 10 HAMDEN WIDENING	Washington Ave. to Cheshire TL Long Range Plan	1/1	2/3 Varies
0079-XXXX I-691 MERIDEN INT IMPROVEMENT	Add new WB access at Chamberlain Highway (Rt. 71). Long Range Plan.	NA	
0079-XXXX RTE 5 MERIDEN WIDENING	Wallingford TL to Olive St (Rt. 71). Long Range Plan	1/1	2/2

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2020 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
SOUTH CENTRAL (CONT'D)			
0083-XXXX RTE 162 MILFORD WIDENING	From West of Old Gate Lane to Gulf St. Clark St. to US 1 Long Range Plan.	1/1	1/2
0092-0531 I-95 NEW HAVEN UPGRADE EXPRESSWAY	Reconstruction of I-95/I91/Rte 34 Interchange Associated with Q-Bridge Replacement. CCD 11-30-16, TIP.	Varies	
0092-0622 I-95 NEW HAVEN UPGRADE EXPRESSWAY	Contract E3 involves the construction of a two-lane connection between I-95 SB and I-91 NB. Associated with Q-Bridge Replacement. Breakout of Project 0092-0531 CCD 11-30-16, TIP.	1/1	2/2
0092-0627 I-95 NEW HAVEN BRIDGE REPLACEMENT	Reconstruction of I-95/I91/Rte 34 Interchange Associated with Q-Bridge Replacement. 92-531 Breakout of Project 0092-0531 CCD 11-30-16, TIP.	3/3	5/5
0092-XXXX RTE 69 NEW HAVEN, WOODBRIDGE WIDENING	From Rte 63 to Landin St Long Range Plan.	1/1	2/2
0092-XXXX RTE 63 NEW HAVEN, WOODBRIDGE WIDENING	From Dayton St (NH) to Landin St (Wdbg) Long Range Plan.	1/2	2/3
0092-XXXX NEW HAVEN	Long Wharf access Plan Widen I-95(in separate project), Eliminate Long Wharf Drive to expand park, add new road from Long Wharf Drive Long Range Plan	Varies	

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2020 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
SOUTH CENTRAL (CONT'D)			
0098-XXXX RTE 80 NO. BRANFORD WIDENING	From East Haven TL to Doral Farms Rd Rte 22 to Guilford TL Long Range Plan	1/1	1/2
0106-XXXX RTE 162 ORANGE WIDENING	From West Haven TL to US 1 Long Range Plan	1/1	2/2
0148-XXXX RTE 150 WALLINGFORD WIDENING	From Rte 71 overpass South of Old Colony Rd to Rte 68 Long Range Plan	1/1	1/2
0148-XXXX US 5 WALLINGFORD WIDENING	From South Orchard St. to Ward St. Christian Rd. to Meriden TL Long Range Plan	1/1	2/2
0156-XXXX RTE 1 WEST HAVEN WIDENING	Campbell Ave to Orange TL Long Range Plan.	2/2	2/3
0156-XXXX RTE 122 WEST HAVEN WIDENING	US 1 to Elm St Long Range Plan.	1/1	2/2
0156-XXXX RTE 162 WEST HAVEN WIDENING	Elm St to Greta St. Long Range Plan.	2/2	3/3
0156-XXXX RTE 162 WEST HAVEN WIDENING	Bull Hill Ln to Orange TL Long Range Plan.	1/1	2/2

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2020 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
SOUTHEASTERN			
0152-XXXX ROUTE 85 WATERFORD WIDENING	From Harvey Ave. to Jefferson Ave. Long Range Plan.	1/1	2/2
0152-0143 I-95 WATERFORD INTERCHANGE MODIFICATION	Installation of access/egress ramps connecting a proposed frontage road. Long Range Pan	0	2/2
SOUTH WESTERN			
0035-XXXX I-95 DARIEN/STAMFORD WIDENING	Add Lane from Stamford Exit 8 to Darien Exit 10 Operational Lane Long Range Plan	3/3	4/4
0102-0312 US 7/RT 15 NORWALK UPGRADE EXPRESSWAY	Reconstruction of Interchange 40 Merritt Parkway, and US 7(Main Ave.). Breakout of 0102-0269,PHASE 1, CCD 1/1/2016 TIP	NA	
0102-0269 US 7/RT 15 NORWALK UPGRADE EXPRESSWAY.	Upgrade to full interchange at Merritt Parkway (Rt. 15). BID 01-09-08, CCD 1-1-2016, TIP.	NA	
0102-0278 I-95 NORWALK WIDENING	From Route 7 expressway interchange (Exit 15) to Exit 14. Long Range Plan.	3/3	4/4
0102-XXXX NORWALK, GREENWICH BRT	Express Bus/BRT between Norwalk and Greenwich Long Range Plan	NA	
0135-XXXX ROUTE 1 STAMFORD WIDENING	Widen Route 1 to a uniform four lanes within Stamford. Long Range Plan	Varies	2/2

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2020 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	 TO
VALLEY			
0002-XXXX ROUTE 8 ANSONIA INTERCHANGE	Interchange 18 - Construct New NB entrance ramp. Long Range Plan	NA	
0036-XXXX ROUTE 8 DERBY INTERCHANGE	Rt. 8 Interchange 16 and 17; Construct new NB ramps. Close old ramps. Long Range Plan.	NA	
0036-XXXX ROUTE 34 DERBY MAJOR WIDENING	Main Street Derby from Elizabeth Street to Route 115; widen with new retaining walls; Long Range Plan.	1/1	2/2
0124-XXXX ROUTE 8 SEYMOUR INTERCHANGE	Between Interchange 22 and 23; improve access. Long Range Plan.	NA	
0124-XXXX ROUTE 67 SEYMOUR MAJOR WIDENING	Bank Street from West Street to North Main St Long Range Plan.	1/1	2/2
0124-XXXX ROUTE 8 SEYMOUR INTERCHANGE	Realign interchange with new extension of Derby Road. Long Range Plan.	NA	
0126-XXXX ROUTE 714 SHELTON MAJOR WIDENING	Between Huntington Ave. and Constitution Boulevard Long Range Plan.	1/1	2/2
0126-XXXX ROUTE 8 SHELTON INTERCHANGE	Interchange 14 - Construct new SB entrance ramp, Long Range Plan.	NA	
0126-XXXX ROUTE 8 SHELTON INTERCHANGE	Interchange 11 - Construct new SB entrance ramp, Widen Bridgeport Ave. Long Range Plan.	NA	

TABLE 1: LIST OF NETWORK CHANGES (Cont'd.)

2030 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM TO
CAPITOL		
VARIOUS TOWNS	New Haven/Hartford/Springfield Rail Service	NA
NEW COMMUTER	Governors Transportation Initiative	
RAIL	Long Range Plan	
CENTRAL CONNECTICUT		
VARIOUS TOWNS	New Haven/Hartford/Springfield Rail Service	NA
NEW COMMUTER	Governors Transportation Initiative	
RAIL	Long Range Plan	
SOUTH CENTRAL		
VARIOUS TOWNS	New Haven/Hartford/Springfield Rail Service	NA
NEW COMMUTER	Governors Transportation Initiative	
RAIL	Long Range Plan	

2035 NETWORK CHANGES

No Changes from 2030 Network

The PM 2.5 input file into **MOBILE 6.2** for each analysis year consisted of a "summer" and a "winter" scenario. A January evaluation date was used to the "winter" inventory while a July evaluation date was used for the "summer" inventory. Appropriate minimum/maximum temperatures were employed for the two seasons, as well as seasonal FUEL RVP, SPEED VMT, and DIESEL SULFUR values. Seasonal emission factors were obtained for each county by roadway classification. VMT was apportioned by season for each MPO (or portion of MPO in the case where the non-attainment area encompassed only a part of that MPO) in the Connecticut portion of the NY-NJ-CT PM 2.5 non-attainment Area. A post-processing program was then utilized to calculate the annual emissions for both PM 2.5 and NOx.

In addition, model runs incorporate the effect of the Employer Commute Options (ECO) Program in Southwest Connecticut (Fairfield County). In response to federal legislation, Connecticut has restructured the ECO program to emphasize voluntary participation, combined with positive incentives, to encourage employees to rideshare, use transit and continue to expand their trip reduction activities. In addition, the program has been made available to all employers. It is felt that this process is an effective means of achieving Connecticut's clean air targets. Funding of this effort under the CMAQ program is included in the TIP for FY 2010-2013. It is estimated that this program, if fully successful, could reduce VMT and mobile source emissions by 2% in Southwest Connecticut.

It should be noted that TIP and LRP projects which have negligible impact on trip distribution and/or highway capacity have not been incorporated into the network. These include, but are not limited to, geometric improvements of existing interchanges, short sections of climbing lanes, intersection improvements, transit projects dealing with equipment for existing facilities and vehicles, and transit operating assistance. Essentially, those projects that do not impact the travel demand forecasts are not included in the network.

The network - based travel model used for this analysis is the model that ConnDOT utilizes for transportation planning, programming and design requirements. This travel demand model uses demographic and land use assumptions which are based on population projections for Connecticut, which were updated in the Fall of 2001 to utilize 2000 Census data, and employment projections developed jointly by ConnDOT and Connecticut's 15 Regional Planning Organizations in 2001.

The model uses a constrained equilibrium approach to allocate trips among links. The model was calibrated using 2005 ground counts and 2005 HPMS VMT data as well as data contained in the 2000 Census Journey to Work.

Peak hour directional traffic volumes were estimated as a percentage of the ADT on a link by link basis. Based on automatic traffic recorder data, 9.0 percent, 8.5 percent, 8.0 percent and 7.5 percent of the ADT occurs during the four highest hours of the day. A 55:45 directional split was assumed. Hourly volumes were then converted to Service Flow Levels (SFL) and Volume to Capacity (V/C) ratios calculated as follows:

$$SFL = DHV/PHF*N$$
$$VC = SFL / C$$

where: DHV = Directional Hourly Volume

PHF = Peak Hour Factor = 0.9
N = Number of lanes
C = Capacity of lane

Peak period speeds were estimated from the 1994 Highway Capacity Manual based on the design speed, facility class, area type and calculated V/C ratio. On the expressway system, Connecticut-based free flow speed data was available. This data was deemed more appropriate and superseded the capacity manual speed values. The expressway free flow speeds were updated in November 2000 and are based on year 2000 speed data.

For the off - peak hours, traffic volume is not the controlling factor for vehicle speed. Off - peak link speeds were based on the Highway Capacity Manual free flow speeds as a function of facility class and area type. As before, Connecticut-based speed data was substituted for expressway travel, where available, and was also updated in November 2000 with year 2000 data.

Two special cases exist in the modeling process. These are centroid connectors and intrazonal trips.

- Centroid connectors represent the local roads used to gain access to the model network from centers of activity in each traffic analysis zone (TAZ). A speed of 25 mph is utilized for these links.
- Intrazonal trips are trips that are too short to get on to the model network. VMT for intrazonal trips is calculated based on the size of each individual TAZ. A speed of 20 to 24 mph is utilized for peak period and 25 to 29 mph for off - peak.

The Annual Vehicle Miles of Travel (AVMT) is calculated using a methodology based on disaggregate speed, converted to summer and winter VMTs, and summarized by inventory area, functional class, and speed. The annual VMT and speed profiles developed by this process are then combined with the emission factors from the **MOBILE6.2** model to produce emission estimates for each scenario and time frame. VMT data as well as the **MOBILE6.2** PM 2.5 and NOx annual emissions by MPO may be found in Appendix A and B. The **MOBILE6.2** input files are in Appendix C and the PM 2.5 output files are in Appendix D, while the NOx output files are found in Appendix E. Appendix F lists various acronyms used in the report.

In all cases the transportation program and plan meets the required conformity tests:

- Action years show less emissions than the 2009 budget levels.

This analysis in no way reflects the full benefit on air quality from the transportation plan and program. The network-based modeling process is capable of assessing the impact of major new highway or transit service. It does not reflect the impact from the many projects, which are categorically excluded from the requirement of conformity. These projects include numerous improvements to intersections, which will allow traffic to flow more efficiently, thus reducing delay, fuel usage and emissions. Included in the TIP, but not reflected in this analysis, are many projects to maintain existing rail and bus systems. Without these projects, those systems could not offer the high level of service they do. With them, the mass transit systems function more efficiently, improve safety, and provide a more dependable and aesthetically appealing service. These advantages will retain existing patrons and attract additional riders to the system. The technology to quantify the air quality benefits from these programs is not currently available.

As shown in this analysis, transportation emissions are declining dramatically and will continue to do so. This is primarily due to programs such as reformulated fuels, enhanced inspection and maintenance programs, stage two vapor recovery (area source), the low emissions vehicles (LEV) program, and the Tier 2 / Sulfur-in-Gas reduction program. Changes in the transportation system will not produce significant emissions reductions because of the massive existing rail, bus, highway systems, and land development already in place. Change in these aspects is always at the margin, producing very small impacts.

10) ANALYSIS RESULTS

The emissions analysis results for the Connecticut portion of the New Jersey – New York – Connecticut multi-state non-attainment area are presented in Tables 2 and 3 below.

Table 2: Direct $PM_{2.5}$ Emissions Budget Test Results (tons per year)

Series 28I:						
	2009	2009	2010	2020	2030	2035
	Budgets					
Total	360	349	330	241	245	250
Conclusion		Pass	Pass	Pass	Pass	Pass

Table 3: Indirect $PM_{2.5}$ Emission Budget Test Results (NOx) (tons per year)

Series 28I:						
	2009	2009	2010	2020	2030	2035
	Budgets					
Total	18,279	17,769	15,947	5,499	3,822	3,791
Conclusion		Pass	Pass	Pass	Pass	Pass

11) CONCLUSION

This emissions analysis transportation conformity has been demonstrated for the Connecticut portion of the NY-NJ-CT $PM_{2.5}$ non-attainment area based upon the direct $PM_{2.5}$ and the NOx emission budgets for 2009 effective as of June 20, 2007. The region is working toward steadily improving air quality and fully attaining National Ambient Air Quality Standards. The finding reflects the carrying forward of the vision of the various partners in the non-attainment area, and their broad regional goals for improved natural and built environments, a growing economy, and an effective, interconnected, safe and reliable transportation system coordinated with land use.

APPENDIX A

INTERAGENCY CONSULTATION GROUP

CONFERENCE CALL MINTUES

SEPTEMBER 2, 2009

2010 TIP INTERAGENCY CONSULTATION CONFERENCE CALL
September 2, 2009
10:00 a.m.
Connecticut Department of Transportation
Room 2307

Conference Call

Attendees:

Eloise Powell - FHWA
Bill Gordon – FTA (Call in)
Don Cooke – EPA (Call in)
Paul Bodner - DEP
Paul Farrell - DEP
Robert Haramut - Midstate
Jennifer Carrier – CRCOG
Lia Huang - CRCOG
Mark Nielson – Gr. Bridgeport
Floyd Lapp – Southwestern (Call in)
Jim Rode – South Central (Call in)
Robbin Cabelus - DOT
Maribeth Wojenski - DOT
Judy Raymond - DOT
Donna Weaver - DOT

The meeting began with conference call participates introducing themselves. Don Cooke (EPA) asked for further clarification on two additional projects:

- 0135-0297 Hope Street in Stamford Floyd Lapp (SWRPA) was able to provide additional information on the project and the Air Quality code "X6" was maintained.

- 0151-0296 Homer Street in Waterbury was incorrectly coded. The project is a breakout of project #0151-0297 Nottingham to North Main and both projects are currently in the statewide travel model.

It was noted that project 0102-0278 in Stamford would be modeled at the request of the South Western Regional Planning Agency and questions by the Capitol Region Council of Governments had been addressed prior to the conference call. The list of the projects for which the air quality codes required further information by EPA and the MPO's, are included as a separate attachment.

A discussion then centered on the travel model and emissions software planning assumptions employed in the conformity analysis. EPA stated that the 2002 vehicle registration data file would be acceptable for this Conformity Determination, however, the file would need to be updated by the next Conformity. DMV did not have the 2002 registration data available until the end of 2003 and then consultant processing time and DEP processing time resulted in the data not being available until December 2004. This is still within the five year planning assumption requirement. It was requested by EPA and agreed upon by CTDOT, that a statement to this extent will be added to each of the conformity reports.

Additional files in the travel and emissions models were also found adequate for this conformity determination, but would also need to be updated before the next conformity report. The files are:

- VMT by hour
- VMT by facility
- VMT by fraction
- Speed VMT

- Population and Employment

EPA also stated that the 2005 I/M program was still adequate for this conformity. In addition, emission input files dealing with the weather and fuel will need to be updated by the next conformity round.

DOT stated that the next Conformity is anticipated to be in two years, based upon the LRP and TIP requirements. DEP stated that the new emissions software, MOVES, would most likely be the emissions model used for the next conformity. Therefore, all input files would have to be updated and revised, as well as converted into the new MOVES format prior to the next conformity determination. DOT and DEP will be initiating a workgroup to develop the necessary files for executing the MOVES model.

As EPA found Connecticut's PM 2.5 Motor Vehicle Emissions Budgets adequate on June 20, 2007, the State then had 24 months to complete a conformity determination using these new budgets. EPA stated that completion of this conformity determination would negate any lapse.

To comply with Governor Rell's Executive Directive # 3, dated May 14, 2009, it was recommended that only an electronic version of each of the conformity reports would be made available to the MPO's and state and federal agencies. There was total agreement on this issue. EPA agreed that all files to run the emissions model could be sent either electronically or on DVD.

It was agreed that the interagency consultation process for the 2010 STIP worked well and an Interagency Consultation Process for Transportation Conformity would be available within the next few months.

2010 STIP Interagency Consultation Review Revised September 3, 2009

Proj#	AQ(	Town	Rte/Sys	Description	Reason	Exempt Project	Numbe
0004-0123	X6	AVON	US 44	MAJOR WIDENING & REALIGNMT OF US 44 FROM CT 10 TO THE WEST HARTFORD TOWN LINE - AC CONV.	SAFETY IMPRV ON US 44 FRM 500' E/O RT 10 TO W.HTFD TL (AVON MTN)	Safety Improvement	6
0015-0312	X6	BRIDGEPORT		BRIDGEPORT HIGH SPEED FERRY	CONSTRUCTION Mass Transit FACILITY FOR THE BRIDGEPORT PORT AUTHORITY	Mass Transit Facility	31
0020-0102	X6	BURLINGTON	CT 4	REALIGN BETWEEN BELDEN & MOUTAIN SPRING ROADS	REALIGN THE "S" CURVES ON RTE 4 to increase sight distance	Increse sight distance	5
0025-0138	X6	CHESHIRE	CT 42	CT 42 REALIGNMENT/DRAINAGE IMPRVEMTS AT K	ROUTE 42 REALIGNMENT /DRAINAGE IMPROVS. AT KING RD. Hazard elimination - NO ADDED CAPACITY	Hazard elimination	2
0025-0142	X6	CHESHIRE	VARIOUS	WEST JOHNSON RD	Resurfacing - 2000 ft	Pavement resurfacing and/or rehabilitation	10
0068-0209	X7	KILLINGLY	SOAP ST	RELOCATION OF SOAP ST. @ CT 12	The relocation of Soap Street to align opposite from the new driveway to Killingly High School, minor widening, signalization of the intersection. 4R RECNSTRCT NO ADDED CAPACITY	Intersection signatization	45
0076-0212	X6	Manchester	North Main St	FULL-DEPTH RECONSTRUCTION OF NORTH MAIN STREET FROM STOCK PLACE TO NORTH STREET FOR AN APPROXIMATE PROJECT LENGTH OF 1,600 FEET IN THE TOWN OF MANCHESTER.	THE EXISTING PAVEMENT HAS EXCEEDED ITS SERVICEABILITY AND IS IN NEED OF RECONSTRUCTION. IN CONJUNCTION WITH THE FULL-DEPTH RECONSTRUCTION, A NEW DRAINAGE SYSTEM WILL BE INSTALLED AND WILL BE CONNECTED TO EXISTING DRAINAGE SYSTEMS. GEOMETRIC IMPROVEMENTS ARE NEEDED AT THE INTERSECTION OF UNION ST. THEY INCLUDE RECONFIGURING THE INTERSECTION AS A STANDARD T-TYPE, ADDING A LEFT-TURN LANE IN THE EASTBOUND DIRECTION, AND INSTALLING A NEW TRAFFIC SIGNAL.	Pavement resurfacing and/or rehabilitation Intersection channelization projects Increse sight distance Intersection signatization	10
0088-0175	X6	NEW BRITAIN	VARIOUS	CORBIN AVE (WEST MN ST TO OSGOOD AVE) EAST ST (NEWINGTON AVE TO SOUTH ST) STANLEY ST (CHESTNUT TO SOUTH ST) AND ELLIS ST(EAST ST TO RT. 9).	PAVEMENT PRESERVATION IMP. As resurfacing and/or rehabilitation	Pavement resurfacing and/or rehabilitation	10
0094-0239	X6	NEW LONDON	MONTAUK AVE	MONTAUK AVENUE IMPROVEMENTS PHASE 1	Resurfacing in New London as resurfacing and/or rehabilitation	Pavement resurfacing and/or rehabilitation	10
0096-0192	X7	NEWTOWN	US 6	INTRS & RDWY IMPVMTS TO US 6, COMMERCE RD & EDMOND RD IN NEWTOWN.	US RTE 6 INTERSECTION IMPROVEMENTS 4R RECNSTRCT NO ADDED CAPACITY Intersection channelization project	Intersection channelization projects	44
0100-0174	N	North Haven	Valley Service Road Ext.	This proposed project will extend the existing Valley Service Road approximately 950 feet from its current cul-de-sac terminus to the Main Entrance Drive	HPP project CT071(Serial#980) is to construct Valley Service Road Extension in the Town of North Haven.	Not Regional Significant/Excluded	N
0102-0325	X7	NORWALK	US 1	ROADWAY WIDENING ON RT 1 FROM HOYT TO KNIGHT ST, INTERSECTION IMPROVEMENTS AT RTS 1/123	INTERSECTION IMPROVEMENTS ON US 1 4R RECNSTRCT NO ADDED CAPACITY Intersection channelization project	Intersection channelization projects	44
0102-0335	X6	NORWALK	VARIOUS	DR. MARTIN KING JR. DR, BELDEN HILL RD, BUTLER ST/HARBOR AVE	Martin Luther King Jr. Drive, Beldon Hill Road, Butler Street and Harbor Avenue are all Urban Minor Arterial roadways pavement preservation. As resurfacing and/or rehabilitation	Pavement resurfacing and/or rehabilitation	10
0107-XXXX	X6	OXFORD	VARIOUS	CHRISTIAN STREET (LOWER)	Continue reconstruction started in project 107-166	Pavement resurfacing and/or rehabilitation	10
0110-0129	X7	PLYMOUTH	SOUTH MAIN	REALIGN & RECONSTRUCT SOUTH MAIN ST TO SOFTEN A 90 DEGREE CURVE.	Reconstruction and Realignment of South Main Street. Also included is the upgrade of the existing drainage system. Intersection channelization project	Intersection channelization projects	44
0114-0081	X6	PROSPECT	SCOTT RD	MINOR WIDENING OF SCOTT RD FROM NICHOLAS CT TO MARIA HOTCHKISS RD APPRX 3900'.	Reconstruction of Scott Road from Nicholas Court to Maria Hotchkiss Road for a distance of approximately 3900 l.f.4R RECNSTRCT NO ADDED CAPACITY As resurfacing and/or rehabilitation	Pavement resurfacing and/or rehabilitation	10
0114-0187	X6	PROSPECT	VARIOUS	STRAITSVILLE RD	Reclamation and paving of a 2,100-foot section of Straitsville Road from Porter Hill Road northerly.	Pavement resurfacing and/or rehabilitation	10
0135-0297	X6	STAMFORD	HOPE ST	WIDENING, MINIVALE ROAD TO NORTHILL ST	Minor Widening of Hope Street from Minivale Rd to Northhill St in Stamford. Hazard elimination program	Hazard elimination	2
0136-0070	X7	STERLING /PLAINFIELD	CT 14/14A	VARIOUS IMPROVEMENTS TO CT 14 & CT 14A.	VARIOUS IMPROVEMENTS TO RT. 14 & RT. 14A IN TOWNS OF STERLING & PLAINFIELD Intersection channelization projects. 4R RECNSTRCT NO ADDED CAPACITY	Intersection channelization projects	44

Proj#	AQCd	Town	Rte/Sys	Description	Reason	Exempt Project	Number	
0151-0296	MOD	WATERBURY	HOMER ST	WIDENING, WATERVILLE ST. TO NOTTINGHAM TER	4R RECNSTRCT ADDED CAPACITY In our model since 2007... Not on 2007 -2010 STIP List			
0153-0121	X6	WATERTOWN	VARIOUS	FRENCH ST	Pavement rehabilitation of French Street from Main Street to Buckingham Street in Watertown.	Pavement resurfacing and/or rehabilitation	10	
0166-0101	X6	WOLCOTT	VARIOUS	LONG SWAMP RD	The reconstruction of Long Swamp Road from Route 69 to approximately 200 feet east of Gianni Drive will replace the existing pavement structure and catch basin tops along with improving sight distances.	Increse sight distance	5 10	
Region review								
Capitol								
0063-0643	X6	HARTFORD	NEW FLATBUSH	2010STIPSETUP. NEW FLATBUSH AVE BRIDGE OVER AMTRAK RR	No additional travel lanes - No added capacity - Hwy bridge over RR	Reconstruction of Bridge and repaving	19	
0004-0123	X6	AVON	US 44	MAJOR WIDENING & REALIGNMT OF US 44 FROM CT 10 TO THE WEST HARTFORD TOWN LINE - AC CONV.	Because it is a SAFETY & TRAFFIC OPERATIONAL IMPRV ON US 44 FRM 500' E/O RT 10 TO W.HTFD TL X6 for safety	Safety Improvement	6	
0053-0181	X8	GLASTONBURY	MAIN ST	SIGNAL SYSTEM - PUTNAM BLVD TO WELLES ST	Change is recommended to X8. Signalization of the intersection	Traffic synchronization	50	Was X6
Southwest								
0102-0326	X8	NORWALK	Various	PHASE 1 SIGNAL UPGRADE supplement	Computerized Signal System	Traffic synchronization	50	
0056-0271	X7	GREENWICH	US 1	INTERSECTION IMPROVEMENTS, US 1, GREENWICH - AC CONV.	Intersection channelization projects	Intersection channelization projects	44	
0102-0269	MOD	NORWALK	US 7/CT 15	US 7 & CT 15 IN NORWALK, UPGRADE TO FULL INTERCHG WITH MERRITT PKWY, PHASE 2 - AC	Modeled			
0102-0278	MOD	NORWALK	I-95	I-95 EXIT 14 TO 15 IMPROVEMENTS-NORTH & SOUTH ROUTE 1 IMPROVEMENT.	Operational Lane one mile			was X7
0102-0295	X6	NORWALK	I-95	RECONST THE MEDIAN ON I-95 & INSTALL 45" CONC BARRIER CURB IN NORWALK &	Reconstruction of Median and Conc Barrier	Reconstruction of Median and Conc Barrier	9	
0102-0296	X6	NORWALK	CT 15	RESURFACE, SAFETY & BRIDGE IMPRVMTS - CT 124 TO US 7.	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	19	
0102-0298	X6	NORWALK	CT 15	RESURFACE, SAFETY & BRIDGE IMPRVMTS - US 7 TO RT 33.	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	19	
0102-0305	MOD	NORWALK/ WILTON	US 7	RECONSTRUCT & WIDEN US 7 FROM GRISTMILL RD TO CT 33 IN WILTON.	Modeled			
0102-0310	X6	NORWALK	US 7	RESURFACE, SAFETY & BRIDGE IMPRVMTS - I-95 TO CT 123.	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	19	
0102-0317	X6	NORWALK	CT-15	REHAB BR #718/SILVERMINE RV. & # 00717/SILVERMINE AVE	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	19	
0135-0270	X6	STAMFORD	CT 15	RESURFACING,BRIDGE,AND SAFETY IMPROVEMENTS;FROM TL TO CT 124 [NEW	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	19	
0135-0287	X7	STAMFORD	US 1	MAJOR INTERSECTION IMPRVMENTS ON COURTLAND AVE (CT 106) AT US 1 & HAMILTON	Intersection channelization projects	Intersection channelization projects	44	
0158-0193	X7	WESTPORT	US 1	INTERSCTN IMPROVEMTS & OPERATIONAL LN ADDITIONS IN WTPORT ON US 1 AT GRD UNION DR & TURKEY HILL RD.	Intersection channelization projects	Intersection channelization projects	44	
0158-0199	X6	WESTPORT	CT 15	RESURFACING.BRIDGE,AND SAFETY IMPROVEMENTS;FROM CT 33 TO CONGRESS ST	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	19	
0158-0201	X7	WESTPORT	CT 136	INTERSECTION IMPROVEMTS ON CT 57/136 @ WESTON RD, & CT 57/136 @ CLINTON AVE.	Intersection channelization projects	Intersection channelization projects	44	
0004-0124	X6	AVON	US 45	MAJOR WIDENING & REALIGNMT OF US 44 FROM CT 10 TO THE WEST HARTFORD TOWN LINE - AC CONV.	SAFETY IMPRV ON US 44 FRM 500' E/O RT 10 TO W.HTFD TL (AVON MTN)	Safety Improvement	26.6	
0015-0313	X6	BRIDGEPORT		BRIDGEPORT HIGH SPEED FERRY	CONSTRUCTION Mass Transit FACILITY FOR THE BRIDGEPORT PORT AUTHORITY	Mass Transit Facility	28.29090909	
0020-0103	X6	BURLINGTON	CT 80	REALIGN BETWEEN BELDEN & MOUTAIN SPRING ROADS	REALIGN THE "S" CURVES ON RTE 4 to increase sight distance	Increse sight distance	29.98181818	
0025-0146	X6	CHESHIRE	CT 118	CT 42 REALIGNMENT/DRAINAGE IMPRVEMTS AT K	ROUTE 42 REALIGNMENT /DRAINAGE IMPROVS. AT KING RD. Hazard elimination - NO ADDED CAPACITY	Hazard elimination	31.67272727	
0025-0150	X6	CHESHIRE	VARIOUS	WEST JOHNSON RD	Resurfacing - 2000 ft	Pavement resurfacing and/or rehabilitation	33.36363636	
0068-0210	X7	KILLINGLY	SOAP ST	RELOCATION OF SOAP ST. @ CT 13	The relocation of Soap Street to align opposite from the new driveway to Killingly High School, minor widening, signalization of the intersection. 4R RECNSTRCT NO ADDED CAPACITY	Intersection signatization	35.05454545	

Proj#	AQCd	Town	Rte/Sys	Description	Reason	Exempt Project	Number	
0088-0176	X6	NEW BRITAIN	VARIOUS	CORBIN AVE (WEST MN ST TO OSGOOD AVE) EAST ST (NEWINGTON AVE TO SOUTH ST) STANLEY ST (CHESTNUT TO SOUTH ST) AND ELLIS ST(EAST ST TO RT. 9).	PAVEMENT PRESERVATION IMP. As resurfacing and/or rehabilitation	Pavement resurfacing and/or rehabilitation	38.43636364	
0094-0240	X6	NEW LONDON	MONTAUK AVE	MONTAUK AVENUE IMPROVEMENTS PHASE 2	Resurfacing in New London as resurfacing and/or rehabilitation	Pavement resurfacing and/or rehabilitation	40.12727273	
0096-0193	X7	NEWTOWN	US 7	INTRS & RDWY IMPVMTS TO US 6, COMMERCE RD & EDMOND RD IN NEWTOWN.	US RTE 6 INTERSECTION IMPROVEMENTS 4R RECNSTRCT NO ADDED CAPACITY Intersection channelization project	Intersection channelization projects	41.81818182	
0100-0175	N	North Haven	Valley Service Road Ext.	This proposed project will extend the existing Valley Service Road approximately 950 feet from its current cul-de-sac terminus to the Main Entrance Drive	HPP project CT071(Serial#980) is to construct Valley Service Road Extension in the Town of North Haven.	Not Regional Significant/Excluded	N	
0102-0345	X7	NORWALK	US 2	ROADWAY WIDENING ON RT 1 FROM HOYT TO KNIGHT ST, INTERSECTION IMPROVEMENTS AT RTS 1/124	INTERSECTION IMPROVEMENTS ON US 1 4R RECNSTRCT NO ADDED CAPACITY Intersection channelization project	Intersection channelization projects	12.37096774	
0102-0355	X6	NORWALK	VARIOUS	DR. MARTIN KING JR. DR, BELDEN HILL RD, BUTLER ST/HARBOR AVE	Martin Luther King Jr. Drive, Beldon Hill Road, Butler Street and Harbor Avenue are all Urban Minor Arterial roadways pavement preservation. As resurfacing and/or rehabilitation	Pavement resurfacing and/or rehabilitation	11	
0107-XXXX	X6	OXFORD	VARIOUS	CHRISTIAN STREET (LOWER)	Continue reconstruction started in project 107-167	Pavement resurfacing and/or rehabilitation	9.629032258	
0110-0130	X7	PLYMOUTH	SOUTH MAIN	REALIGN & RECONSTRUCT SOUTH MAIN ST TO SOFTEN A 90 DEGREE CURVE.	Reconstruction and Realignment of South Main Street. Also included is the upgrade of the existing drainage system. Intersection channelization project	Intersection channelization projects	8.258064516	
0114-0293	X6	PROSPECT	SCOTT RD	MINOR WIDENING OF SCOTT RD FROM NICHOLAS CT TO MARIA HOTCHKISS RD APPRX 3900'.	Reconstruction of Scott Road from Nicholas Court to Maria Hotchkiss Road for a distance of approximately 3900 l.f.4R RECNSTRCT NO ADDED CAPACITY As resurfacing and/or rehabilitation	Pavement resurfacing and/or rehabilitation	6.887096774	
0114-0399	X6	PROSPECT	VARIOUS	STRAITSVILLE RD	Reclamation and paving of a 2,100-foot section of Straitsville Road from Porter Hill Road northerly.	Pavement resurfacing and/or rehabilitation	5.516129032	
0135-0298	X6	STAMFORD	HOPE ST	WIDENING, MINIVALE ROAD TO NORTHILL ST	Minor Widening of Hope Street from Minivale Rd to Northhill St in Stamford. Hazard elimination program	Hazard elimination	4.14516129	
0136-0071	X7	STERLING /PLAINFIELD	CT 14/14A	VARIOUS IMPROVEMENTS TO CT 14 & CT 14A.	VARIOUS IMPROVEMENTS TO RT. 14 & RT. 14A IN TOWNS OF STERLING & PLAINFIELD Intersection channelization projects. 4R RECNSTRCT NO ADDED CAPACITY	Intersection channelization projects	2.774193548	
0151-0297	MOD	WATERBURY	HOMER ST	WIDENING, WATERVILLE ST. TO NOTTINGHAM TER	4R RECNSTRCT ADDED CAPACITY In our model since 2007... Not on 2007 -2010 STIP List		1.403225806	
0153-0122	X6	WATERTOWN	VARIOUS	FRENCH ST	Pavement rehabilitation of French Street from Main Street to Buckingham Street in Watertown.	Pavement resurfacing and/or rehabilitation	0.032258065	
0166-0102	X6	WOLCOTT	VARIOUS	LONG SWAMP RD	The reconstruction of Long Swamp Road from Route 69 to approximately 200 feet east of Gianni Drive will replace the existing pavement structure and catch basin tops along with improving sight distances.	Increse sight distance	6 10	
Region review								
Capitol								
0063-0644	X6	HARTFORD	NEW FLATBUSH AVE	2010STIPSETUP. NEW FLATBUSH AVE BRIDGE OVER AMTRAK RR	No additional travel lanes - No added capacity - Hwy bridge over RR	Reconstruction of Bridge and repaving	30.26205369	
0004-0124	X6	AVON	US 45	MAJOR WIDENING & REALIGNMT OF US 44 FROM CT 10 TO THE WEST HARTFORD TOWN LINE - AC CONV.	Because it is a SAFETY & TRAFFIC OPERATIONAL IMPRV ON US 44 FRM 500' E/O RT 10 TO W.HTFD TL X6 for safety	Safety Improvement	30.4743289	
0053-0182	X8	GLASTONBURY	MAIN ST	SIGNAL SYSTEM - PUTNAM BLVD TO WELLES ST	Change is recommended to X8. Signalization of the intersection	Traffic synchronization	30.68660412	Was X8
Southwest							30.89887933	
0102-0327	X8	NORWALK	Various	PHASE 1 SIGNAL UPGRADE supplement	Computerized Signal System	Traffic synchronization	31.11115455	
0056-0272	X7	GREENWICH	US 2	INTERSECTION IMPROVEMENTS, US 1, GREENWICH - AC CONV.	Intersection channelization projects	Intersection channelization projects	31.32342976	
0102-0269	MOD	NORWALK	US 7/CT 16	US 7 & CT 15 IN NORWALK, UPGRADE TO FULL INTERCHG WITH MERRITT PKWY, PHASE 2 - AC CONV.	Modeled		31.53570498	
0102-0278	MOD	NORWALK	I-95	I-95 EXIT 14 TO 15 IMPROVEMENTS-NORTH & SOUTH ROUTE 1 IMPROVEMENT.	Operational Lane one mile		31.74798019	Was X9
0102-0295	X6	NORWALK	I-95	RECONST THE MEDIAN ON I-95 & INSTALL 45" CONC BARRIER CURB IN NORWALK & WESTPORT - AC CONV.	Reconstruction of Median and Conc Barrier	Reconstruction of Median and Conc Barrier	31.96025541	
0102-0296	X6	NORWALK	CT 15	RESURFACE, SAFETY & BRIDGE IMPRVMTS - CT 124 TO US 7.	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	32.17253062	

Proj#	AQCd	Town	Rte/Sys	Description	Reason	Exempt Project	Number
0102-0298	X6	NORWALK	CT 15	RESURFACE, SAFETY & BRIDGE IMPRVMTS - US 7 TO RT 33.	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	32.38480584
0102-0305	MOD	NORWALK/ WILTON	US 7	RECONSTRUCT & WIDEN US 7 FROM GRISTMILL RD TO CT 33 IN WILTON.	Modeled		32.59708105
0102-0310	X6	NORWALK	US 7	RESURFACE, SAFETY & BRIDGE IMPRVMTS - I-95 TO CT 123.	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	32.80935627
0102-0317	X6	NORWALK	CT-15	REHAB BR #718/SILVERMINE RV. & # 00717/SILVERMINE AVE	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	33.02163148
0135-0304	X6	STAMFORD	CT-15	RESURFACING,BRIDGE,AND SAFETY IMPROVEMENTS;FROM TL TO CT 124 [NEW CANAAN]	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	33.2339067
0135-0321	X7	STAMFORD	US 1	MAJOR INTERSECTION IMPRVMENTS ON COURTLAND AVE (CT 106) AT US 1 & HAMILTON AVE.	Intersection channelization projects	Intersection channelization projects	33.44618191
0158-0193	X7	WESTPORT	US 1	INTERSCTN IMPROVEMTS & OPERATIONAL LN ADDITIONS IN WTPORT ON US 1 AT GRD UNION DR & TURKEY HILL RD.	Intersection channelization projects	Intersection channelization projects	33.65845713
0158-0199	X6	WESTPORT	CT 257	RESURFACING.BRIDGE,AND SAFETY IMPROVEMENTS;FROM CT 33 TO CONGRESS ST	Reconstruction of Bridge and repaving	Reconstruction of Bridge and repaving	33.87073234
0158-0201	X7	WESTPORT	CT 378	INTERSECTION IMPROVEMTS ON CT 57/136 @ WESTON RD, & CT 57/136 @ CLINTON AVE.	Intersection channelization projects	Intersection channelization projects	34.08300756

APPENDIX B

PM 2.5 EMISSION OUTPUTS BY ANALYSIS YEAR

M O B I L E 6.2
- PM 2.5 Emissions -
CT Portion of NY/NJ/CT PM 2.5 NonAttainment Area

CENTRAL NAUGATUCK VA	PM 2.5 (tons per year)	Average Annual VMT
Expressway	26.2	990900352.
Arterial/Collector	16.3	917103936.
Local	2.8	171283360.
Ramp	1.0	38325364.
Totals	46.3	2117612928.

GREATER BRIDGEPORT	PM 2.5 (tons per year)	Average Annual VMT
Expressway	31.4	1189327360.
Arterial/Collector	15.7	883362624.
Local	2.8	172248240.
Ramp	1.5	58609512.
Totals	51.5	2303547648.

HOUSATONIC VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	15.2	574013248.
Arterial/Collector	15.9	894368960.
Local	3.4	207701968.
Ramp	0.8	29579418.
Totals	35.2	1705663616.

SOUTH CENTRAL	PM 2.5 (tons per year)	Average Annual VMT
Expressway	74.2	2808715008.
Arterial/Collector	37.3	2097006592.
Local	5.5	336932416.
Ramp	2.5	94406888.
Totals	119.5	5337060352.

SOUTHWESTERN	PM 2.5 (tons per year)	Average Annual VMT
Expressway	50.1	1896298880.
Arterial/Collector	26.6	1497202816.
Local	4.7	290666656.
Ramp	1.2	44671804.
Totals	82.6	3728840192.

VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	6.6	248556240.
Arterial/Collector	6.1	343947904.
Local	1.0	60518644.
Ramp	0.2	7296532.
Totals	13.9	660319296.

AREA TOTALS	PM 2.5 (tons per year)	Average Annual VMT
Expressway	203.6	7707811840.
Arterial/Collector	118.0	6632992768.
Local	20.1	1239351296.
Ramp	7.2	272889536.
Totals	349.0	15853044736.

M O B I L E 6.2
- PM 2.5 Emissions -
CT Portion of NY/NJ/CT PM 2.5 NonAttainment Area

CENTRAL NAUGATUCK VA	PM 2.5 (tons per year)	Average Annual VMT
Expressway	24.0	982674368.
Arterial/Collector	16.1	946050624.
Local	2.7	173734704.
Ramp	0.9	37832796.
Totals	43.7	2140292480.

GREATER BRIDGEPORT	PM 2.5 (tons per year)	Average Annual VMT
Expressway	29.1	1194954496.
Arterial/Collector	15.1	887269184.
Local	2.7	173717552.
Ramp	1.4	58965204.
Totals	48.4	2314906624.

HOUSATONIC VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	14.0	574162880.
Arterial/Collector	15.5	912984512.
Local	3.3	210123024.
Ramp	0.7	29601864.
Totals	33.6	1726872320.

SOUTH CENTRAL	PM 2.5 (tons per year)	Average Annual VMT
Expressway	69.2	2838898432.
Arterial/Collector	36.1	2118603136.
Local	5.3	340467072.
Ramp	2.3	95743336.
Totals	113.0	5393712128.

SOUTHWESTERN	PM 2.5 (tons per year)	Average Annual VMT
Expressway	46.6	1909811584.
Arterial/Collector	25.7	1507321216.
Local	4.6	293111968.
Ramp	1.1	44938800.
Totals	77.9	3755183616.

VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	6.0	247088944.
Arterial/Collector	6.0	350773024.
Local	1.0	60976716.
Ramp	0.2	7226270.
Totals	13.1	666064896.

AREA TOTALS	PM 2.5 (tons per year)	Average Annual VMT
Expressway	188.9	7747591168.
Arterial/Collector	114.5	6723001856.
Local	19.6	1252131072.
Ramp	6.7	274308256.
Totals	329.6	15997031424.

M O B I L E 6.2
- PM 2.5 Emissions -
CT Portion of NY/NJ/CT PM 2.5 NonAttainment Area

CENTRAL NAUGATUCK VA	PM 2.5 (tons per year)	Average Annual VMT
Expressway	16.0	1085901824.
Arterial/Collector	13.4	1006635904.
Local	2.4	186519200.
Ramp	0.6	41741216.
Totals	32.4	2320798208.

GREATER BRIDGEPORT	PM 2.5 (tons per year)	Average Annual VMT
Expressway	18.9	1284350336.
Arterial/Collector	12.6	951449536.
Local	2.4	186797152.
Ramp	1.0	64636756.
Totals	34.9	2487233536.

HOUSATONIC VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	9.5	646981504.
Arterial/Collector	13.1	985502208.
Local	3.0	230171184.
Ramp	0.5	33418304.
Totals	26.1	1896073216.

SOUTH CENTRAL	PM 2.5 (tons per year)	Average Annual VMT
Expressway	45.2	3074514944.
Arterial/Collector	30.4	2286289920.
Local	4.8	370143200.
Ramp	1.5	103354312.
Totals	82.0	5834302464.

SOUTHWESTERN	PM 2.5 (tons per year)	Average Annual VMT
Expressway	30.1	2043925120.
Arterial/Collector	21.4	1610804992.
Local	4.1	314164992.
Ramp	0.7	47751488.
Totals	56.3	4016646656.

VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	4.0	269624416.
Arterial/Collector	4.8	357913888.
Local	0.9	65483556.
Ramp	0.1	7929078.
Totals	9.7	700950976.

AREA TOTALS	PM 2.5 (tons per year)	Average Annual VMT
Expressway	123.7	8405298176.
Arterial/Collector	95.6	7198596096.
Local	17.7	1353279360.
Ramp	4.4	298831168.
Totals	241.3	17256005632.

M O B I L E 6.2
- PM 2.5 Emissions -
CT Portion of NY/NJ/CT PM 2.5 NonAttainment Area

CENTRAL NAUGATUCK VA	PM 2.5 (tons per year)	Average Annual VMT
Expressway	15.8	1153923456.
Arterial/Collector	13.9	1080358016.
Local	2.6	199566848.
Ramp	0.6	44369036.
Totals	32.9	2478217472.

GREATER BRIDGEPORT	PM 2.5 (tons per year)	Average Annual VMT
Expressway	18.4	1349488640.
Arterial/Collector	13.2	1020505344.
Local	2.6	199876192.
Ramp	0.9	68147872.
Totals	35.1	2638018048.

HOUSATONIC VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	9.6	705280384.
Arterial/Collector	13.8	1073295104.
Local	3.2	251027648.
Ramp	0.5	36328084.
Totals	27.2	2065931264.

SOUTH CENTRAL	PM 2.5 (tons per year)	Average Annual VMT
Expressway	44.7	3270898176.
Arterial/Collector	31.9	2473382144.
Local	5.1	400110080.
Ramp	1.5	109791456.
Totals	83.2	6254181888.

SOUTHWESTERN	PM 2.5 (tons per year)	Average Annual VMT
Expressway	29.4	2154053632.
Arterial/Collector	22.3	1728214016.
Local	4.3	334158592.
Ramp	0.7	50417816.
Totals	56.7	4266844160.

VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	3.9	288041408.
Arterial/Collector	5.0	384192608.
Local	0.9	69741824.
Ramp	0.1	8473110.
Totals	9.9	750448960.

AREA TOTALS	PM 2.5 (tons per year)	Average Annual VMT
Expressway	121.9	8921686016.
Arterial/Collector	100.1	7759946752.
Local	18.6	1454481152.
Ramp	4.3	317527360.
Totals	245.0	18453641216.

M O B I L E 6.2
- PM 2.5 Emissions -
CT Portion of NY/NJ/CT PM 2.5 NonAttainment Area

CENTRAL NAUGATUCK VA	PM 2.5 (tons per year)	Average Annual VMT
Expressway	16.0	1192226816.
Arterial/Collector	14.4	1122994176.
Local	2.6	206534160.
Ramp	0.6	45837612.
Totals	33.6	2567592704.

GREATER BRIDGEPORT	PM 2.5 (tons per year)	Average Annual VMT
Expressway	18.6	1385735424.
Arterial/Collector	13.5	1057655040.
Local	2.6	206601856.
Ramp	0.9	70142232.
Totals	35.7	2720134656.

HOUSATONIC VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	9.9	735020736.
Arterial/Collector	14.3	1121012480.
Local	3.3	261799904.
Ramp	0.5	37864188.
Totals	28.0	2155697152.

SOUTH CENTRAL	PM 2.5 (tons per year)	Average Annual VMT
Expressway	45.4	3372914944.
Arterial/Collector	32.9	2574726400.
Local	5.3	415179456.
Ramp	1.5	113123904.
Totals	85.1	6475944448.

SOUTHWESTERN	PM 2.5 (tons per year)	Average Annual VMT
Expressway	29.8	2214126592.
Arterial/Collector	23.0	1796501760.
Local	4.4	345152576.
Ramp	0.7	51752436.
Totals	57.8	4407533568.

VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	4.0	297250528.
Arterial/Collector	5.1	398842240.
Local	0.9	71963216.
Ramp	0.1	8743575.
Totals	10.1	776799552.

AREA TOTALS	PM 2.5 (tons per year)	Average Annual VMT
Expressway	123.7	9197275136.
Arterial/Collector	103.2	8071732224.
Local	19.1	1507231232.
Ramp	4.4	327463936.
Totals	250.4	19103703040.

APPENDIX C

NOx PRECURSOR EMISSION OUTPUTS BY ANALYSIS YEAR

M O B I L E 6.2
--- NOx Emissions ---
CT Portion of NY/NJ/CT PM 2.5 NonAttainment Area

CENTRAL NAUGATUCK VA	NOX (tons per year)	Average Annual VMT
Expressway	1463.2	990900352.
Arterial/Collector	730.7	917103936.
Local	120.8	171283360.
Ramp	43.2	38325364.
Totals	2358.0	2117612928.

GREATER BRIDGEPORT	NOX (tons per year)	Average Annual VMT
Expressway	1722.1	1189327360.
Arterial/Collector	710.9	883362624.
Local	121.6	172248240.
Ramp	66.1	58609512.
Totals	2620.6	2303547648.

HOUSATONIC VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	831.1	574013248.
Arterial/Collector	719.4	894368960.
Local	146.5	207701968.
Ramp	33.4	29579418.
Totals	1730.4	1705663616.

SOUTH CENTRAL	NOX (tons per year)	Average Annual VMT
Expressway	4147.8	2808715008.
Arterial/Collector	1671.3	2097006592.
Local	237.8	336932416.
Ramp	106.5	94406888.
Totals	6163.4	5337060352.

SOUTHWESTERN	NOX (tons per year)	Average Annual VMT
Expressway	2745.8	1896298880.
Arterial/Collector	1204.9	1497202816.
Local	205.1	290666656.
Ramp	50.4	44671804.
Totals	4206.1	3728840192.

VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	363.8	248556240.
Arterial/Collector	275.4	343947904.
Local	42.7	60518644.
Ramp	8.2	7296532.
Totals	690.2	660319296.

AREA TOTALS	NOX (tons per year)	Average Annual VMT
Expressway	11273.8	7707811840.
Arterial/Collector	5312.6	6632992768.
Local	874.6	1239351296.
Ramp	307.7	272889536.
Totals	17768.7	15853044736.

M O B I L E 6.2
--- NOx Emissions ---
CT Portion of NY/NJ/CT PM 2.5 NonAttainment Area

CENTRAL NAUGATUCK VA	NOX (tons per year)	Average Annual VMT
Expressway	1288.8	982674368.
Arterial/Collector	674.3	946050624.
Local	110.3	173734704.
Ramp	38.0	37832796.
Totals	2111.2	2140292480.

GREATER BRIDGEPORT	NOX (tons per year)	Average Annual VMT
Expressway	1537.6	1194954496.
Arterial/Collector	636.9	887269184.
Local	110.3	173717552.
Ramp	59.2	58965204.
Totals	2343.9	2314906624.

HOUSATONIC VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	738.8	574162880.
Arterial/Collector	655.0	912984512.
Local	133.3	210123024.
Ramp	29.7	29601864.
Totals	1556.9	1726872320.

SOUTH CENTRAL	NOX (tons per year)	Average Annual VMT
Expressway	3723.6	2838898432.
Arterial/Collector	1510.3	2118603136.
Local	216.1	340467072.
Ramp	96.1	95743336.
Totals	5546.1	5393712128.

SOUTHWESTERN	NOX (tons per year)	Average Annual VMT
Expressway	2457.4	1909811584.
Arterial/Collector	1082.0	1507321216.
Local	186.1	293111968.
Ramp	45.1	44938800.
Totals	3770.6	3755183616.

VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	321.3	247088944.
Arterial/Collector	250.9	350773024.
Local	38.7	60976716.
Ramp	7.3	7226270.
Totals	618.2	666064896.

AREA TOTALS	NOX (tons per year)	Average Annual VMT
Expressway	10067.4	7747591168.
Arterial/Collector	4809.4	6723001856.
Local	794.8	1252131072.
Ramp	275.2	274308256.
Totals	15946.8	15997031424.

M O B I L E 6.2
--- NOx Emissions ---
CT Portion of NY/NJ/CT PM 2.5 NonAttainment Area

CENTRAL NAUGATUCK VA	NOX (tons per year)	Average Annual VMT
Expressway	427.5	1085901824.
Arterial/Collector	252.5	1006635904.
Local	43.1	186519200.
Ramp	13.5	41741216.
Totals	736.6	2320798208.

GREATER BRIDGEPORT	NOX (tons per year)	Average Annual VMT
Expressway	495.0	1284350336.
Arterial/Collector	240.8	951449536.
Local	43.2	186797152.
Ramp	21.0	64636756.
Totals	799.9	2487233536.

HOUSATONIC VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	249.3	646981504.
Arterial/Collector	249.3	985502208.
Local	53.2	230171184.
Ramp	10.8	33418304.
Totals	562.7	1896073216.

SOUTH CENTRAL	NOX (tons per year)	Average Annual VMT
Expressway	1210.4	3074514944.
Arterial/Collector	573.5	2286289920.
Local	85.5	370143200.
Ramp	33.5	103354312.
Totals	1903.0	5834302464.

SOUTHWESTERN	NOX (tons per year)	Average Annual VMT
Expressway	787.7	2043925120.
Arterial/Collector	407.6	1610804992.
Local	72.6	314164992.
Ramp	15.5	47751488.
Totals	1283.4	4016646656.

VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	105.1	269624416.
Arterial/Collector	90.2	357913888.
Local	15.1	65483556.
Ramp	2.6	7929078.
Totals	213.0	700950976.

AREA TOTALS	NOX (tons per year)	Average Annual VMT
Expressway	3275.1	8405298176.
Arterial/Collector	1813.9	7198596096.
Local	312.6	1353279360.
Ramp	97.0	298831168.
Totals	5498.6	17256005632.

M O B I L E 6.2
--- NOx Emissions ---
CT Portion of NY/NJ/CT PM 2.5 NonAttainment Area

CENTRAL NAUGATUCK VA	NOX (tons per year)	Average Annual VMT
Expressway	264.9	1153923456.
Arterial/Collector	202.7	1080358016.
Local	34.9	199566848.
Ramp	9.8	44369036.
Totals	512.4	2478217472.

GREATER BRIDGEPORT	NOX (tons per year)	Average Annual VMT
Expressway	304.7	1349488640.
Arterial/Collector	193.8	1020505344.
Local	35.0	199876192.
Ramp	15.1	68147872.
Totals	548.5	2638018048.

HOUSATONIC VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	159.2	705280384.
Arterial/Collector	203.7	1073295104.
Local	43.9	251027648.
Ramp	8.1	36328084.
Totals	414.9	2065931264.

SOUTH CENTRAL	NOX (tons per year)	Average Annual VMT
Expressway	751.0	3270898176.
Arterial/Collector	464.2	2473382144.
Local	70.0	400110080.
Ramp	24.4	109791456.
Totals	1309.5	6254181888.

SOUTHWESTERN	NOX (tons per year)	Average Annual VMT
Expressway	486.3	2154053632.
Arterial/Collector	328.1	1728214016.
Local	58.5	334158592.
Ramp	11.2	50417816.
Totals	884.1	4266844160.

VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	65.6	288041408.
Arterial/Collector	72.5	384192608.
Local	12.2	69741824.
Ramp	1.9	8473110.
Totals	152.2	750448960.

AREA TOTALS	NOX (tons per year)	Average Annual VMT
Expressway	2031.7	8921686016.
Arterial/Collector	1465.0	7759946752.
Local	254.5	1454481152.
Ramp	70.5	317527360.
Totals	3821.7	18453641216.

M O B I L E 6.2
--- NOx Emissions ---
CT Portion of NY/NJ/CT PM 2.5 NonAttainment Area

CENTRAL NAUGATUCK VA	NOX (tons per year)	Average Annual VMT
Expressway	256.7	1192226816.
Arterial/Collector	207.0	1122994176.
Local	35.5	206534160.
Ramp	9.7	45837612.
Totals	508.9	2567592704.

GREATER BRIDGEPORT	NOX (tons per year)	Average Annual VMT
Expressway	293.1	1385735424.
Arterial/Collector	197.9	1057655040.
Local	35.5	206601856.
Ramp	14.9	70142232.
Totals	541.4	2720134656.

HOUSATONIC VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	155.5	735020736.
Arterial/Collector	209.7	1121012480.
Local	44.9	261799904.
Ramp	8.1	37864188.
Totals	418.2	2155697152.

SOUTH CENTRAL	NOX (tons per year)	Average Annual VMT
Expressway	726.3	3372914944.
Arterial/Collector	474.7	2574726400.
Local	71.3	415179456.
Ramp	24.1	113123904.
Totals	1296.3	6475944448.

SOUTHWESTERN	NOX (tons per year)	Average Annual VMT
Expressway	468.3	2214126592.
Arterial/Collector	336.2	1796501760.
Local	59.3	345152576.
Ramp	11.0	51752436.
Totals	874.8	4407533568.

VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	63.5	297250528.
Arterial/Collector	74.1	398842240.
Local	12.4	71963216.
Ramp	1.9	8743575.
Totals	151.8	776799552.

AREA TOTALS	NOX (tons per year)	Average Annual VMT
Expressway	1963.3	9197275136.
Arterial/Collector	1499.6	8071732224.
Local	258.8	1507231232.
Ramp	69.6	327463936.
Totals	3791.3	19103703040.

APPENDIX D

PM2.5 INPUT FILES TO MOBILE 6.2

```
MOBILE6 INPUT FILE :
SPREADSHEET        :
DATABASE OUTPUT    :
POLLUTANTS         : HC NOx
PARTICULATES       :
DATABASE OPTIONS   : CTdb.opt

RUN DATA
>**** SUMMER RUNS****
>********************Fairfield Expressway ****************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2002 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D
* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2009\09Svmt1s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2009 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3821  0.0905  0.3013  0.0929  0.0427  0.0288  0.0028  0.0024
0.0018  0.0064  0.0076  0.0083  0.0295  0.0015  0.0007  0.0007

SCENARIO RECORD    : Fairfield County Summer 2009 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************Fairfield Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2009\09Svmt1s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2009 arterial/collector VMT fractions
VMT FRACTIONS      :
0.4050  0.0959  0.3195  0.0985  0.0453  0.0107  0.0010  0.0009
0.0007  0.0024  0.0028  0.0031  0.0109  0.0005  0.0003  0.0025

SCENARIO RECORD    : Fairfield County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 7
```

```
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>*****************Fairfield  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2009 local VMT fractions
VMT FRACTIONS      :
0.4088  0.0968  0.3225  0.0994  0.0457  0.0070  0.0007  0.0006
0.0004  0.0016  0.0019  0.0020  0.0072  0.0004  0.0002  0.0048

SCENARIO RECORD    : Fairfield County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************Fairfield Ramp *****************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2009 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3821  0.0905  0.3013  0.0929  0.0427  0.0288  0.0028  0.0024
0.0018  0.0064  0.0076  0.0083  0.0295  0.0015  0.0007  0.0007

SCENARIO RECORD    : Fairfield County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
```

```
* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN
>********************New Haven Expressway ****************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2009\09Svmt5s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2009 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3821  0.0905  0.3013  0.0929  0.0427  0.0288  0.0028  0.0024
0.0018  0.0064  0.0076  0.0083  0.0295  0.0015  0.0007  0.0007

SCENARIO RECORD    : New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>*****************New Haven Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2009\09Svmt5s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2009 arterial/collector VMT fractions
VMT FRACTIONS      :
0.4050  0.0959  0.3195  0.0985  0.0453  0.0107  0.0010  0.0009
0.0007  0.0024  0.0028  0.0031  0.0109  0.0005  0.0003  0.0025

SCENARIO RECORD    : New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9
```

```
END OF RUN

>*****************New Haven  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2009 local VMT fractions
VMT FRACTIONS      :
0.4088  0.0968  0.3225  0.0994  0.0457  0.0070  0.0007  0.0006
0.0004  0.0016  0.0019  0.0020  0.0072  0.0004  0.0002  0.0048

SCENARIO RECORD    : New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************New Haven Ramp ****************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2009 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3821  0.0905  0.3013  0.0929  0.0427  0.0288  0.0028  0.0024
0.0018  0.0064  0.0076  0.0083  0.0295  0.0015  0.0007  0.0007

SCENARIO RECORD    : New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN
>******************** WINTER RUNS  ********************************************************
>*******************Fairfield Expressway ******************************************************
```

```
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2002 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D
* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2009\09Svmt1W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2009 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3821  0.0905  0.3013  0.0929  0.0427  0.0288  0.0028  0.0024
0.0018  0.0064  0.0076  0.0083  0.0295  0.0015  0.0007  0.0007

SCENARIO RECORD    : Fairfield County Winter 2009 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************Fairfield Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2009\09Svmt1W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2009 arterial/collector VMT fractions
VMT FRACTIONS      :
0.4050  0.0959  0.3195  0.0985  0.0453  0.0107  0.0010  0.0009
0.0007  0.0024  0.0028  0.0031  0.0109  0.0005  0.0003  0.0025

SCENARIO RECORD    : Fairfield County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************Fairfield  Local ******************************************
```

```
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2009 local VMT fractions
VMT FRACTIONS      :
0.4088  0.0968  0.3225  0.0994  0.0457  0.0070  0.0007  0.0006
0.0004  0.0016  0.0019  0.0020  0.0072  0.0004  0.0002  0.0048

SCENARIO RECORD    : Fairfield County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************Fairfield Ramp ******************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2009 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3821  0.0905  0.3013  0.0929  0.0427  0.0288  0.0028  0.0024
0.0018  0.0064  0.0076  0.0083  0.0295  0.0015  0.0007  0.0007

SCENARIO RECORD    : Fairfield County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>********************New Haven Expressway ******************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D
```

```
* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2009\09Svmt5W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2009 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3821  0.0905  0.3013  0.0929  0.0427  0.0288  0.0028  0.0024
0.0018  0.0064  0.0076  0.0083  0.0295  0.0015  0.0007  0.0007

SCENARIO RECORD    : New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2009\09Svmt5W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2009 arterial/collector VMT fractions
VMT FRACTIONS      :
0.4050  0.0959  0.3195  0.0985  0.0453  0.0107  0.0010  0.0009
0.0007  0.0024  0.0028  0.0031  0.0109  0.0005  0.0003  0.0025

SCENARIO RECORD    : New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
```

```
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2009 local VMT fractions
VMT FRACTIONS      :
0.4088  0.0968  0.3225  0.0994  0.0457  0.0070  0.0007  0.0006
0.0004  0.0016  0.0019  0.0020  0.0072  0.0004  0.0002  0.0048

SCENARIO RECORD    : New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven Ramp ******************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2009 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3821  0.0905  0.3013  0.0929  0.0427  0.0288  0.0028  0.0024
0.0018  0.0064  0.0076  0.0083  0.0295  0.0015  0.0007  0.0007

SCENARIO RECORD    : New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2009
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN
```

```
MOBILE6 INPUT FILE :
SPREADSHEET        :
DATABASE OUTPUT    :
POLLUTANTS         : HC NOx
PARTICULATES       :
DATABASE OPTIONS   : CTdb.opt

RUN DATA
>**** SUMMER RUNS****
>********************Fairfield Expressway ******************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2002 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D
* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2010\10Svmt1s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2010 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3691 0.0928 0.3088 0.0952 0.0437 0.0288 0.0028 0.0024
0.0018 0.0064 0.0076 0.0083 0.0294 0.0015 0.0007 0.0007


SCENARIO RECORD    : Fairfield County Summer 2010 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>*****************Fairfield Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2010\10Svmt1s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2010 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3912 0.0984 0.3273 0.1009 0.0464 0.0107 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : Fairfield County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
```

```
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************Fairfield  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2010 local VMT fractions
VMT FRACTIONS      :
0.3948 0.0993 0.3304 0.1018 0.0468 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : Fairfield County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************Fairfield Ramp ******************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2010 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3691 0.0928 0.3088 0.0952 0.0437 0.0288 0.0028 0.0024
0.0018 0.0064 0.0076 0.0083 0.0294 0.0015 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
```

```
* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN
>********************New Haven Expressway ****************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2010\10Svmt5s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2010 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3691 0.0928 0.3088 0.0952 0.0437 0.0288 0.0028 0.0024
0.0018 0.0064 0.0076 0.0083 0.0294 0.0015 0.0007 0.0007

SCENARIO RECORD    : New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>*****************New Haven Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2010\10Svmt5s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2010 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3912 0.0984 0.3273 0.1009 0.0464 0.0107 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
```

```
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************New Haven  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2010 local VMT fractions
VMT FRACTIONS      :
0.3948 0.0993 0.3304 0.1018 0.0468 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************New Haven Ramp ******************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2010 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3691 0.0928 0.3088 0.0952 0.0437 0.0288 0.0028 0.0024
0.0018 0.0064 0.0076 0.0083 0.0294 0.0015 0.0007 0.0007

SCENARIO RECORD    : New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN
>******************** WINTER RUNS  ************************************************************
```

```
>*******************Fairfield Expressway ****************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2002 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D
* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2010\10Svmt1W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2010 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3691 0.0928 0.3088 0.0952 0.0437 0.0288 0.0028 0.0024
0.0018 0.0064 0.0076 0.0083 0.0294 0.0015 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Winter 2010 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************Fairfield Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2010\10Svmt1W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2010 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3912 0.0984 0.3273 0.1009 0.0464 0.0107 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : Fairfield County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN
```

```
>*****************Fairfield  Local ****************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2010 local VMT fractions
VMT FRACTIONS      :
0.3948 0.0993 0.3304 0.1018 0.0468 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : Fairfield County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************Fairfield Ramp *****************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2010 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3691 0.0928 0.3088 0.0952 0.0437 0.0288 0.0028 0.0024
0.0018 0.0064 0.0076 0.0083 0.0294 0.0015 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*******************New Haven Expressway ****************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D
```

```
* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2010\10Svmt5W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2010 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3691 0.0928 0.3088 0.0952 0.0437 0.0288 0.0028 0.0024
0.0018 0.0064 0.0076 0.0083 0.0294 0.0015 0.0007 0.0007

SCENARIO RECORD    : New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************New Haven Arterials/Collectors *************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2010\10Svmt5W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2010 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3912 0.0984 0.3273 0.1009 0.0464 0.0107 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************New Haven  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D
```

```
* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2010 local VMT fractions
VMT FRACTIONS      :
0.3948 0.0993 0.3304 0.1018 0.0468 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*******************New Haven Ramp *****************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2010 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3691 0.0928 0.3088 0.0952 0.0437 0.0288 0.0028 0.0024
0.0018 0.0064 0.0076 0.0083 0.0294 0.0015 0.0007 0.0007

SCENARIO RECORD    : New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 43.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 26.2 45.4

END OF RUN
```

```
MOBILE6 INPUT FILE :
SPREADSHEET        :
DATABASE OUTPUT    :
POLLUTANTS         : HC NOx
PARTICULATES       :
DATABASE OPTIONS   : CTdb.opt

RUN DATA
>**** SUMMER RUNS****
>********************Fairfield Expressway ******************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2002 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D
* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2020\20svmt1s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2020 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2916 0.1062 0.3534 0.1089 0.0501 0.0286 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Summer 2020 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************Fairfield Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2020\20svmt1s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2020 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : Fairfield County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 7
```

```
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>*****************Fairfield  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2020 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : Fairfield County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************Fairfield Ramp *****************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2020 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2916 0.1062 0.3534 0.1089 0.0501 0.0286 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
```

```
* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN
>********************New Haven Expressway ****************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2020\20svmt5s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2020 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2916 0.1062 0.3534 0.1089 0.0501 0.0286 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>*****************New Haven Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2020\20svmt5s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2020 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9
```

```
END OF RUN

>*****************New Haven  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2020 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************New Haven Ramp ****************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2020 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2916 0.1062 0.3534 0.1089 0.0501 0.0286 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN
>******************** WINTER RUNS  ********************************************************
>*******************Fairfield Expressway ******************************************************
```

```
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2002 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D
* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2020\20svmt1W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2020 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2916 0.1062 0.3534 0.1089 0.0501 0.0286 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Winter 2020 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************Fairfield Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2020\20svmt1W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2020 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : Fairfield County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************Fairfield  Local ******************************************
```

```
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2020 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : Fairfield County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************Fairfield Ramp ******************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2020 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2916 0.1062 0.3534 0.1089 0.0501 0.0286 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>********************New Haven Expressway ******************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D
```

```
* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2020\20svmt5W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2020 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2916 0.1062 0.3534 0.1089 0.0501 0.0286 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2020\20svmt5W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2020 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
```

```
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2020 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven Ramp ******************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2020 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2916 0.1062 0.3534 0.1089 0.0501 0.0286 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2020
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN
```

```
MOBILE6 INPUT FILE :
SPREADSHEET        :
DATABASE OUTPUT    :
POLLUTANTS         : HC NOx
PARTICULATES       :
DATABASE OPTIONS   : CTdb.opt

RUN DATA
>**** SUMMER RUNS****
>********************Fairfield Expressway ****************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2002 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D
* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2030\30svmt1s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2030 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Summer 2030 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************Fairfield Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2030\30svmt1s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2030 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : Fairfield County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
```

```
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>*****************Fairfield  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2030 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : Fairfield County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************Fairfield Ramp *****************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2030 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
```

```
* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN
>********************New Haven Expressway ****************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2030\30svmt5s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2030 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>*****************New Haven Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2030\30svmt5s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2030 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9
```

```
END OF RUN

>*****************New Haven  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2030 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************New Haven Ramp ****************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2030 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN
>******************** WINTER RUNS  ********************************************************
>*******************Fairfield Expressway ******************************************************
```

```
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2002 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D
* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2030\30svmt1W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2030 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Winter 2030 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************Fairfield Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2030\30svmt1W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2030 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : Fairfield County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************Fairfield  Local ******************************************
```

```
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2030 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : Fairfield County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************Fairfield Ramp ******************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2030 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>********************New Haven Expressway ******************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D
```

```
* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2030\30svmt5W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2030 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2030\30svmt5W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2030 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
```

```
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2030 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven Ramp ******************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2030 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN
```

```
MOBILE6 INPUT FILE :
SPREADSHEET        :
DATABASE OUTPUT    :
POLLUTANTS         : HC NOx
PARTICULATES       :
DATABASE OPTIONS   : CTdb.opt

RUN DATA
>**** SUMMER RUNS****
>********************Fairfield Expressway ****************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2002 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D
* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2035\35svmt1s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Summer 2035 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************Fairfield Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2035\35svmt1s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2035 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : Fairfield County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 7
```

```
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>*****************Fairfield  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2035 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : Fairfield County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************Fairfield Ramp *****************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
```

```
* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN
>********************New Haven Expressway ****************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2035\35svmt5s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>*****************New Haven Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2035\35svmt5s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2035 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9
```

```
END OF RUN

>*****************New Haven  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2035 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN

>******************New Haven Ramp ****************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       : 4
  114.0  103.0   96.0   80.0  78.0  61.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 6.8

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 7
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area
MIN/MAX TEMP       : 51.9 74.9

END OF RUN
>******************** WINTER RUNS  ********************************************************
>*******************Fairfield Expressway ******************************************************
```

```
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2002 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D
* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2035\35svmt1W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Winter 2035 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************Fairfield Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2035\35svmt1W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2035 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : Fairfield County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>*****************Fairfield  Local ******************************************
```

```
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2035 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : Fairfield County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************Fairfield Ramp ******************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : Fairfield County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>********************New Haven Expressway ******************************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D
```

```
* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2035\35svmt5W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven Arterials/Collectors **************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER28I\2035\35svmt5W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2035 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3090 0.1125 0.3743 0.1154 0.0531 0.0106 0.0010 0.0009
0.0007 0.0024 0.0028 0.0031 0.0109 0.0005 0.0003 0.0025

SCENARIO RECORD    : New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven  Local ******************************************

* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
```

```
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTL.CTY

* 2035 local VMT fractions
VMT FRACTIONS      :
0.3118 0.1135 0.3778 0.1164 0.0536 0.0071 0.0007 0.0006
0.0004 0.0016 0.0019 0.0020 0.0072 0.0004 0.0002 0.0048

SCENARIO RECORD    : New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN

>******************New Haven Ramp ******************************************************
* Northeast NLEV inputs
94+ LDG IMP        : NLEVNE.D

* Fuel Data
FUEL PROGRAM       :       4
  141.0  142.0  142.0  133.0 116.0  86.0 33.0 33.0
   30.0   30.0   30.0   30.0  30.0  30.0 30.0 30.0
 1000.0 1000.0 1000.0 1000.0 303.0 303.0 87.0 87.0
   80.0   80.0   80.0   80.0  80.0  80.0 80.0 80.0
OXYGENATED FUELS   :   0.000 1.000 0.000 0.035 1
FUEL RVP           : 13.0

NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG02.D

EXPRESS HC AS VOC  :

I/M DESC FILE      : CTIM05pl.D

* M6 User's Guide says ATP parameters must be on 2nd line
ANTI-TAMP PROG     :
83 71 50 22222 21111111 1 12 096. 12211112

* VMT Data
VMT BY HOUR        : CTHVMT.def
VMT BY FACILITY    : FCVMTR.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2917 0.1062 0.3534 0.1089 0.0501 0.0285 0.0028 0.0024
0.0018 0.0064 0.0076 0.0082 0.0292 0.0014 0.0007 0.0007

SCENARIO RECORD    : New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2035
EVALUATION MONTH   : 1
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 15.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA area WINTER
MIN/MAX TEMP       : 26.2 45.4

END OF RUN
```

APPENDIX E

PM 2.5 EMISSION OUTPUT FILES

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 09PMFNH2.IN (file 1, run 1).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2009 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2009
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   43. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3817    0.3918    0.1336              0.0265    0.0003    0.0020    0.0633    0.0007    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0038    0.0037    0.0038    0.0037    0.0373    ------    ------    ------    0.0142    0.0044
            ECARBON:    ------    ------    ------    ------    ------    0.0420    0.0166    0.1142    ------    0.0073
            OCARBON:    ------    ------    ------    ------    ------    0.0118    0.0239    0.0578    ------    0.0037
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0016    0.0004    0.0008    0.0027    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0389    0.0542    0.0413    0.1747    0.0143    0.0159
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
           Total PM:    0.0113    0.0114    0.0116    0.0115    0.0464    0.0616    0.0487    0.1865    0.0206    0.0235
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0105
                NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 ----------------------------------------------------------------------------------------------------------------------
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 09PMFNH2.IN (file 1, run 2).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2009
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   43. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4046    0.4154    0.1417              0.0098    0.0004    0.0021    0.0235    0.0025    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0037    0.0036    0.0038    0.0037    0.0374    ------    ------    ------    0.0142    0.0039
            ECARBON:    ------    ------    ------    ------    ------    0.0420    0.0166    0.1137    ------    0.0027
            OCARBON:    ------    ------    ------    ------    ------    0.0118    0.0239    0.0576    ------    0.0014
                SO4:    0.0003    0.0005    0.0005    0.0005    0.0015    0.0004    0.0008    0.0027    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0043    0.0041    0.0388    0.0542    0.0413    0.1739    0.0143    0.0085
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
           Total PM:    0.0114    0.0114    0.0116    0.0115    0.0463    0.0616    0.0487    0.1857    0.0206    0.0160
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0091
                NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0988
 ----------------------------------------------------------------------------------------------------------------------
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 09PMFNH2.IN (file 1, run 3).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2009
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   43. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4084    0.4193    0.1430              0.0064    0.0004    0.0021    0.0156    0.0048    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0036    0.0036    0.0037    0.0036    0.0376    ------    ------    ------    0.0142    0.0038
            ECARBON:    ------    ------    ------    ------    ------    0.0420    0.0166    0.1145    ------    0.0018
            OCARBON:    ------    ------    ------    ------    ------    0.0118    0.0239    0.0582    ------    0.0010
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0011    0.0004    0.0008    0.0027    0.0002    0.0006
   Total Exhaust PM:    0.0041    0.0042    0.0043    0.0042    0.0387    0.0542    0.0413    0.1754    0.0144    0.0072
```

```
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0115    0.0115    0.0116    0.0115    0.0462    0.0616    0.0487    0.1871    0.0207    0.0146
               SO2:    0.0067    0.0088    0.0115    0.0094    0.0168    0.0085    0.0161    0.0379    0.0033    0.0088
               NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0994
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 4).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2009
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   43. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3817    0.3918    0.1336              0.0265    0.0003    0.0020    0.0633    0.0007    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0038    0.0037    0.0038    0.0037    0.0373    ------    ------    ------    0.0142    0.0044
            ECARBON:    ------    ------    ------    ------    ------    0.0420    0.0166    0.1142    ------    0.0073
            OCARBON:    ------    ------    ------    ------    ------    0.0118    0.0239    0.0578    ------    0.0037
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0016    0.0004    0.0008    0.0027    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0390    0.0542    0.0413    0.1747    0.0143    0.0159
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0116    0.0115    0.0465    0.0616    0.0487    0.1865    0.0206    0.0235
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0105
               NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 5).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2009
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   43. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3817    0.3918    0.1336              0.0265    0.0003    0.0020    0.0633    0.0007    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0038    0.0037    0.0038    0.0037    0.0373    ------    ------    ------    0.0142    0.0044
            ECARBON:    ------    ------    ------    ------    ------    0.0420    0.0166    0.1142    ------    0.0073
            OCARBON:    ------    ------    ------    ------    ------    0.0118    0.0239    0.0578    ------    0.0037
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0016    0.0004    0.0008    0.0027    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0389    0.0542    0.0413    0.1747    0.0143    0.0159
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0116    0.0115    0.0464    0.0616    0.0487    0.1865    0.0206    0.0235
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0105
               NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 6).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2009
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   43. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4046    0.4154    0.1417              0.0098    0.0004    0.0021    0.0235    0.0025    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
```

```
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0036    0.0038    0.0037    0.0373    ------    ------    ------    0.0142    0.0039
           ECARBON:    ------    ------    ------    ------    ------    0.0420    0.0166    0.1137    ------    0.0027
           OCARBON:    ------    ------    ------    ------    ------    0.0118    0.0239    0.0576    ------    0.0014
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0015    0.0004    0.0008    0.0027    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0043    0.0041    0.0389    0.0542    0.0413    0.1739    0.0143    0.0085
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0114    0.0114    0.0116    0.0115    0.0464    0.0616    0.0487    0.1857    0.0206    0.0160
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0091
               NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0988
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 7).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2009
                                     Month:  July
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4084    0.4193    0.1430              0.0064    0.0004    0.0021    0.0156    0.0048    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0036    0.0037    0.0036    0.0376    ------    ------    ------    0.0142    0.0038
           ECARBON:    ------    ------    ------    ------    ------    0.0420    0.0166    0.1145    ------    0.0018
           OCARBON:    ------    ------    ------    ------    ------    0.0118    0.0239    0.0582    ------    0.0010
               SO4:    0.0005    0.0006    0.0006    0.0006    0.0011    0.0004    0.0008    0.0027    0.0002    0.0006
   Total Exhaust PM:    0.0041    0.0042    0.0043    0.0042    0.0387    0.0542    0.0413    0.1754    0.0144    0.0072
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0115    0.0115    0.0116    0.0115    0.0462    0.0616    0.0487    0.1871    0.0207    0.0146
               SO2:    0.0067    0.0088    0.0115    0.0094    0.0168    0.0085    0.0161    0.0379    0.0033    0.0088
               NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0994
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 8).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2009
                                     Month:  July
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3817    0.3918    0.1336              0.0265    0.0003    0.0020    0.0633    0.0007    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0038    0.0037    0.0038    0.0037    0.0373    ------    ------    ------    0.0142    0.0044
           ECARBON:    ------    ------    ------    ------    ------    0.0420    0.0166    0.1142    ------    0.0073
           OCARBON:    ------    ------    ------    ------    ------    0.0118    0.0239    0.0578    ------    0.0037
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0016    0.0004    0.0008    0.0027    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0390    0.0542    0.0413    0.1747    0.0143    0.0159
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0116    0.0115    0.0465    0.0616    0.0487    0.1865    0.0206    0.0235
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0105
               NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 9).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2009 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2009
                                     Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No
```

```
       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3818    0.3918    0.1336              0.0264    0.0003    0.0020    0.0633    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0038    0.0037    0.0038    0.0037    0.0398    ------    ------    ------    0.0142    0.0044
            ECARBON:    ------    ------    ------    ------    ------    0.0444    0.0181    0.1231    ------    0.0079
            OCARBON:    ------    ------    ------    ------    ------    0.0125    0.0261    0.0623    ------    0.0040
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0016    0.0004    0.0008    0.0027    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0043    0.0042    0.0414    0.0573    0.0451    0.1881    0.0143    0.0168
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
           Total PM:    0.0113    0.0114    0.0116    0.0115    0.0489    0.0647    0.0524    0.1999    0.0206    0.0245
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0105
                NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 09PMFNH2.IN (file 1, run 10).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2009
                                     Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   43. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4046    0.4154    0.1417              0.0098    0.0004    0.0021    0.0235    0.0025    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0037    0.0036    0.0038    0.0037    0.0398    ------    ------    ------    0.0142    0.0040
            ECARBON:    ------    ------    ------    ------    ------    0.0444    0.0181    0.1226    ------    0.0029
            OCARBON:    ------    ------    ------    ------    ------    0.0125    0.0261    0.0620    ------    0.0015
                SO4:    0.0003    0.0005    0.0005    0.0005    0.0015    0.0004    0.0008    0.0027    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0043    0.0042    0.0413    0.0573    0.0451    0.1873    0.0143    0.0089
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
           Total PM:    0.0114    0.0115    0.0116    0.0115    0.0488    0.0647    0.0524    0.1992    0.0206    0.0163
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0091
                NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0988
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 09PMFNH2.IN (file 1, run 11).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2009
                                     Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   43. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4084    0.4193    0.1430              0.0064    0.0004    0.0021    0.0156    0.0048    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0036    0.0036    0.0037    0.0036    0.0400    ------    ------    ------    0.0142    0.0038
            ECARBON:    ------    ------    ------    ------    ------    0.0444    0.0181    0.1234    ------    0.0020
            OCARBON:    ------    ------    ------    ------    ------    0.0125    0.0261    0.0627    ------    0.0010
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0011    0.0004    0.0008    0.0027    0.0002    0.0006
   Total Exhaust PM:    0.0041    0.0042    0.0043    0.0042    0.0412    0.0573    0.0451    0.1888    0.0144    0.0075
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
           Total PM:    0.0115    0.0115    0.0117    0.0116    0.0487    0.0647    0.0524    0.2006    0.0207    0.0149
                SO2:    0.0067    0.0088    0.0115    0.0094    0.0168    0.0085    0.0161    0.0380    0.0033    0.0088
                NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0994
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 09PMFNH2.IN (file 1, run 12).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2009
```

```
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3818    0.3918    0.1336              0.0264    0.0003    0.0020    0.0633    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0038    0.0037    0.0038    0.0037    0.0398    ------    ------    ------    0.0142    0.0044
           ECARBON:    ------    ------    ------    ------    ------    0.0444    0.0181    0.1231    ------    0.0079
           OCARBON:    ------    ------    ------    ------    ------    0.0125    0.0261    0.0623    ------    0.0040
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0016    0.0004    0.0008    0.0027    0.0001    0.0005
  Total Exhaust PM:    0.0040    0.0041    0.0043    0.0042    0.0414    0.0573    0.0451    0.1881    0.0143    0.0168
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0116    0.0115    0.0489    0.0647    0.0524    0.1999    0.0206    0.0245
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0105
               NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 09PMFNH2.IN (file 1, run 13).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2009
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3818    0.3918    0.1336              0.0264    0.0003    0.0020    0.0633    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0038    0.0037    0.0038    0.0037    0.0398    ------    ------    ------    0.0142    0.0044
           ECARBON:    ------    ------    ------    ------    ------    0.0444    0.0181    0.1231    ------    0.0079
           OCARBON:    ------    ------    ------    ------    ------    0.0125    0.0261    0.0623    ------    0.0040
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0016    0.0004    0.0008    0.0027    0.0001    0.0005
  Total Exhaust PM:    0.0040    0.0041    0.0043    0.0042    0.0414    0.0573    0.0451    0.1881    0.0143    0.0168
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0116    0.0115    0.0489    0.0647    0.0524    0.1999    0.0206    0.0245
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0105
               NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 09PMFNH2.IN (file 1, run 14).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2009
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4046    0.4154    0.1417              0.0098    0.0004    0.0021    0.0235    0.0025    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0037    0.0038    0.0037    0.0398    ------    ------    ------    0.0142    0.0040
           ECARBON:    ------    ------    ------    ------    ------    0.0444    0.0181    0.1226    ------    0.0029
           OCARBON:    ------    ------    ------    ------    ------    0.0125    0.0261    0.0620    ------    0.0015
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0015    0.0004    0.0008    0.0027    0.0001    0.0005
  Total Exhaust PM:    0.0040    0.0041    0.0043    0.0042    0.0413    0.0573    0.0451    0.1873    0.0143    0.0089
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0114    0.0115    0.0116    0.0115    0.0488    0.0647    0.0524    0.1992    0.0206    0.0163
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0091
               NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0988
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 09PMFNH2.IN (file 1, run 15).                          *
**********************************************************************
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2009
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4084    0.4193    0.1430              0.0064    0.0004    0.0021    0.0156    0.0048    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0036    0.0036    0.0037    0.0036    0.0400    ------    ------    ------    0.0142    0.0038
            ECARBON:    ------    ------    ------    ------    ------    0.0444    0.0181    0.1234    ------    0.0020
            OCARBON:    ------    ------    ------    ------    ------    0.0125    0.0261    0.0627    ------    0.0010
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0011    0.0004    0.0008    0.0027    0.0002    0.0006
  Total Exhaust PM:    0.0041    0.0042    0.0043    0.0042    0.0412    0.0573    0.0451    0.1888    0.0144    0.0075
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
           Total PM:    0.0115    0.0115    0.0117    0.0116    0.0487    0.0647    0.0524    0.2006    0.0207    0.0149
                SO2:    0.0067    0.0088    0.0115    0.0094    0.0168    0.0085    0.0161    0.0380    0.0033    0.0088
                NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0994
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 16).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2009
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3818    0.3918    0.1336              0.0264    0.0003    0.0020    0.0633    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0038    0.0037    0.0038    0.0037    0.0398    ------    ------    ------    0.0142    0.0044
            ECARBON:    ------    ------    ------    ------    ------    0.0444    0.0181    0.1231    ------    0.0079
            OCARBON:    ------    ------    ------    ------    ------    0.0125    0.0261    0.0623    ------    0.0040
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0016    0.0004    0.0008    0.0027    0.0001    0.0005
  Total Exhaust PM:    0.0040    0.0041    0.0043    0.0042    0.0414    0.0573    0.0451    0.1881    0.0143    0.0168
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
           Total PM:    0.0113    0.0114    0.0116    0.0115    0.0489    0.0647    0.0524    0.1999    0.0206    0.0245
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0085    0.0161    0.0379    0.0033    0.0105
                NH3:    0.1017    0.1016    0.1012    0.1015    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 -----------------------------------------------------------------------------------------------------------------------
```

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 10PMFNH2.IN (file 1, run 1).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2010 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0037    0.0036    0.0037    0.0036    0.0326    ------    ------    ------    0.0142    0.0042
            ECARBON:    ------    ------    ------    ------    ------    0.0336    0.0140    0.0977    ------    0.0062
            OCARBON:    ------    ------    ------    ------    ------    0.0095    0.0201    0.0497    ------    0.0032
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0017    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0040    0.0040    0.0042    0.0041    0.0343    0.0432    0.0344    0.1484    0.0143    0.0140
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
           Total PM:    0.0113    0.0114    0.0115    0.0114    0.0418    0.0505    0.0417    0.1602    0.0206    0.0217
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0089
                NH3:    0.1017    0.1017    0.1014    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 ---------------------------------------------------------------------------------------------------------------------
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 10PMFNH2.IN (file 1, run 2).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3908    0.4257    0.1451              0.0098    0.0003    0.0022    0.0235    0.0025    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0037    0.0036    0.0037    0.0036    0.0327    ------    ------    ------    0.0142    0.0039
            ECARBON:    ------    ------    ------    ------    ------    0.0336    0.0140    0.0973    ------    0.0023
            OCARBON:    ------    ------    ------    ------    ------    0.0095    0.0201    0.0494    ------    0.0012
                SO4:    0.0003    0.0005    0.0005    0.0005    0.0015    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0343    0.0432    0.0344    0.1477    0.0143    0.0078
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
           Total PM:    0.0113    0.0114    0.0115    0.0114    0.0417    0.0505    0.0417    0.1595    0.0206    0.0153
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0086
                NH3:    0.1017    0.1017    0.1014    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 ---------------------------------------------------------------------------------------------------------------------
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 10PMFNH2.IN (file 1, run 3).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3944    0.4297    0.1464              0.0065    0.0004    0.0022    0.0156    0.0048    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0036    0.0035    0.0036    0.0035    0.0329    ------    ------    ------    0.0142    0.0037
            ECARBON:    ------    ------    ------    ------    ------    0.0336    0.0140    0.0980    ------    0.0016
            OCARBON:    ------    ------    ------    ------    ------    0.0095    0.0201    0.0501    ------    0.0008
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0012    0.0002    0.0003    0.0009    0.0002    0.0006
   Total Exhaust PM:    0.0041    0.0041    0.0042    0.0041    0.0341    0.0432    0.0344    0.1490    0.0144    0.0067
```

```
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0114    0.0114    0.0115    0.0115    0.0416    0.0505    0.0417    0.1607    0.0207    0.0141
               SO2:    0.0067    0.0088    0.0115    0.0094    0.0167    0.0029    0.0056    0.0132    0.0033    0.0084
               NH3:    0.1017    0.1017    0.1014    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0994
 ----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 4).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0036    0.0037    0.0036    0.0326    ------    ------    ------    0.0142    0.0042
            ECARBON:    ------    ------    ------    ------    ------    0.0336    0.0140    0.0977    ------    0.0062
            OCARBON:    ------    ------    ------    ------    ------    0.0095    0.0201    0.0497    ------    0.0032
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0017    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0040    0.0040    0.0042    0.0041    0.0343    0.0432    0.0344    0.1484    0.0143    0.0140
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0115    0.0114    0.0418    0.0505    0.0417    0.1602    0.0206    0.0217
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0089
               NH3:    0.1017    0.1017    0.1014    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 ----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 5).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0036    0.0037    0.0036    0.0326    ------    ------    ------    0.0142    0.0042
            ECARBON:    ------    ------    ------    ------    ------    0.0336    0.0140    0.0977    ------    0.0062
            OCARBON:    ------    ------    ------    ------    ------    0.0095    0.0201    0.0497    ------    0.0032
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0017    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0040    0.0040    0.0042    0.0041    0.0343    0.0432    0.0344    0.1484    0.0143    0.0140
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0115    0.0114    0.0418    0.0505    0.0417    0.1602    0.0206    0.0217
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0089
               NH3:    0.1017    0.1017    0.1014    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 ----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 6).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3908    0.4257    0.1451              0.0098    0.0003    0.0022    0.0235    0.0025    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
```

```
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0036    0.0037    0.0036    0.0327    ------    ------    ------    0.0142    0.0039
           ECARBON:    ------    ------    ------    ------    ------    0.0336    0.0140    0.0973    ------    0.0023
           OCARBON:    ------    ------    ------    ------    ------    0.0095    0.0201    0.0494    ------    0.0012
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0016    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0343    0.0432    0.0344    0.1477    0.0143    0.0078
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0113    0.0114    0.0115    0.0114    0.0418    0.0505    0.0417    0.1595    0.0206    0.0153
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0086
               NH3:    0.1017    0.1017    0.1014    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 7).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3944    0.4297    0.1464              0.0065    0.0004    0.0022    0.0156    0.0048    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0035    0.0036    0.0035    0.0329    ------    ------    ------    0.0142    0.0037
           ECARBON:    ------    ------    ------    ------    ------    0.0336    0.0140    0.0980    ------    0.0016
           OCARBON:    ------    ------    ------    ------    ------    0.0095    0.0201    0.0501    ------    0.0008
               SO4:    0.0005    0.0006    0.0006    0.0006    0.0012    0.0002    0.0003    0.0009    0.0002    0.0006
   Total Exhaust PM:    0.0041    0.0041    0.0042    0.0041    0.0341    0.0432    0.0344    0.1490    0.0144    0.0067
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0114    0.0114    0.0115    0.0115    0.0416    0.0505    0.0417    0.1607    0.0207    0.0141
               SO2:    0.0067    0.0088    0.0115    0.0094    0.0167    0.0029    0.0056    0.0132    0.0033    0.0084
               NH3:    0.1017    0.1017    0.1014    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0994
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 8).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0036    0.0037    0.0036    0.0326    ------    ------    ------    0.0142    0.0042
           ECARBON:    ------    ------    ------    ------    ------    0.0336    0.0140    0.0977    ------    0.0062
           OCARBON:    ------    ------    ------    ------    ------    0.0095    0.0201    0.0497    ------    0.0032
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0017    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0040    0.0040    0.0042    0.0041    0.0343    0.0432    0.0344    0.1484    0.0143    0.0140
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0115    0.0114    0.0418    0.0505    0.0417    0.1602    0.0206    0.0217
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0089
               NH3:    0.1017    0.1017    0.1014    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 9).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2010 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   43. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No
```

```
       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0036    0.0037    0.0037    0.0347    ------    ------    ------    0.0142    0.0043
           ECARBON:    ------    ------    ------    ------    ------    0.0354    0.0152    0.1053    ------    0.0067
           OCARBON:    ------    ------    ------    ------    ------    0.0100    0.0218    0.0535    ------    0.0034
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0017    0.0004    0.0008    0.0026    0.0001    0.0005
  Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0364    0.0459    0.0379    0.1614    0.0143    0.0149
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0115    0.0114    0.0439    0.0532    0.0452    0.1732    0.0206    0.0226
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0166    0.0084    0.0161    0.0379    0.0033    0.0105
               NH3:    0.1017    0.1017    0.1013    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 10).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2010
                                     Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3908    0.4257    0.1451              0.0098    0.0003    0.0022    0.0235    0.0025    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0036    0.0037    0.0036    0.0348    ------    ------    ------    0.0142    0.0039
           ECARBON:    ------    ------    ------    ------    ------    0.0354    0.0152    0.1048    ------    0.0025
           OCARBON:    ------    ------    ------    ------    ------    0.0100    0.0218    0.0532    ------    0.0013
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0015    0.0004    0.0008    0.0027    0.0001    0.0005
  Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0363    0.0459    0.0379    0.1607    0.0143    0.0082
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0113    0.0114    0.0115    0.0114    0.0438    0.0532    0.0452    0.1725    0.0206    0.0156
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0084    0.0161    0.0379    0.0033    0.0092
               NH3:    0.1017    0.1017    0.1013    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 11).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2010
                                     Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3944    0.4297    0.1464              0.0065    0.0004    0.0022    0.0156    0.0048    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0035    0.0036    0.0035    0.0350    ------    ------    ------    0.0142    0.0038
           ECARBON:    ------    ------    ------    ------    ------    0.0354    0.0152    0.1055    ------    0.0017
           OCARBON:    ------    ------    ------    ------    ------    0.0100    0.0218    0.0539    ------    0.0009
               SO4:    0.0005    0.0006    0.0006    0.0006    0.0012    0.0004    0.0008    0.0027    0.0002    0.0006
  Total Exhaust PM:    0.0041    0.0041    0.0042    0.0041    0.0362    0.0459    0.0379    0.1620    0.0144    0.0069
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0114    0.0115    0.0116    0.0115    0.0437    0.0532    0.0452    0.1738    0.0207    0.0143
               SO2:    0.0067    0.0088    0.0115    0.0094    0.0168    0.0084    0.0161    0.0379    0.0033    0.0089
               NH3:    0.1017    0.1017    0.1013    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0994
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 12).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2010
```

```
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0036    0.0037    0.0037    0.0347    ------    ------    ------    0.0142    0.0043
           ECARBON:    ------    ------    ------    ------    ------    0.0354    0.0152    0.1053    ------    0.0067
           OCARBON:    ------    ------    ------    ------    ------    0.0100    0.0218    0.0535    ------    0.0034
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0017    0.0004    0.0008    0.0026    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0364    0.0459    0.0379    0.1614    0.0143    0.0149
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0115    0.0114    0.0439    0.0532    0.0452    0.1732    0.0206    0.0226
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0166    0.0084    0.0161    0.0379    0.0033    0.0105
               NH3:    0.1017    0.1017    0.1013    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 10PMFNH2.IN (file 1, run 13).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2010
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0036    0.0037    0.0037    0.0347    ------    ------    ------    0.0142    0.0043
           ECARBON:    ------    ------    ------    ------    ------    0.0354    0.0152    0.1053    ------    0.0067
           OCARBON:    ------    ------    ------    ------    ------    0.0100    0.0218    0.0535    ------    0.0034
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0017    0.0004    0.0008    0.0026    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0364    0.0459    0.0379    0.1614    0.0143    0.0149
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0113    0.0114    0.0115    0.0114    0.0439    0.0532    0.0452    0.1732    0.0206    0.0226
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0166    0.0084    0.0161    0.0379    0.0033    0.0105
               NH3:    0.1017    0.1017    0.1013    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 10PMFNH2.IN (file 1, run 14).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2010
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3908    0.4257    0.1451              0.0098    0.0003    0.0022    0.0235    0.0025    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0036    0.0037    0.0036    0.0348    ------    ------    ------    0.0142    0.0039
           ECARBON:    ------    ------    ------    ------    ------    0.0354    0.0152    0.1048    ------    0.0025
           OCARBON:    ------    ------    ------    ------    ------    0.0100    0.0218    0.0532    ------    0.0013
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0015    0.0004    0.0008    0.0027    0.0001    0.0005
   Total Exhaust PM:    0.0040    0.0041    0.0042    0.0041    0.0363    0.0459    0.0379    0.1607    0.0143    0.0082
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0113    0.0114    0.0115    0.0114    0.0438    0.0532    0.0452    0.1725    0.0206    0.0156
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0167    0.0084    0.0161    0.0379    0.0033    0.0092
               NH3:    0.1017    0.1017    0.1013    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 10PMFNH2.IN (file 1, run 15).                          *
**********************************************************************
```

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* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3944    0.4297    0.1464              0.0065    0.0004    0.0022    0.0156    0.0048    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0036    0.0035    0.0036    0.0035    0.0350    ------    ------    ------    0.0142    0.0038
           ECARBON:     ------    ------    ------    ------    ------    0.0354    0.0152    0.1055    ------    0.0017
           OCARBON:     ------    ------    ------    ------    ------    0.0100    0.0218    0.0539    ------    0.0009
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0012    0.0004    0.0008    0.0027    0.0002    0.0006
  Total Exhaust PM:     0.0041    0.0041    0.0042    0.0041    0.0362    0.0459    0.0379    0.1620    0.0144    0.0069
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
           Total PM:    0.0114    0.0115    0.0116    0.0115    0.0437    0.0532    0.0452    0.1738    0.0207    0.0143
                SO2:    0.0067    0.0088    0.0115    0.0094    0.0168    0.0084    0.0161    0.0379    0.0033    0.0089
                NH3:    0.1017    0.1017    0.1013    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0994
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 10PMFNH2.IN (file 1, run 16).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2010
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   43. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0037    0.0036    0.0037    0.0037    0.0347    ------    ------    ------    0.0142    0.0043
           ECARBON:     ------    ------    ------    ------    ------    0.0354    0.0152    0.1053    ------    0.0067
           OCARBON:     ------    ------    ------    ------    ------    0.0100    0.0218    0.0535    ------    0.0034
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0017    0.0004    0.0008    0.0026    0.0001    0.0005
  Total Exhaust PM:     0.0040    0.0041    0.0042    0.0041    0.0364    0.0459    0.0379    0.1614    0.0143    0.0149
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
           Total PM:    0.0113    0.0114    0.0115    0.0114    0.0439    0.0532    0.0452    0.1732    0.0206    0.0226
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0166    0.0084    0.0161    0.0379    0.0033    0.0105
                NH3:    0.1017    0.1017    0.1013    0.1016    0.0451    0.0068    0.0068    0.0270    0.0113    0.0951
 -----------------------------------------------------------------------------------------------------------------------
```

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 20PMFNH2.IN (file 1, run 1).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2020 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2020
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0036    0.0035    0.0035    0.0035    0.0119    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0083    0.0043    0.0177    ------    0.0011
            OCARBON:    ------    ------    ------    ------    ------    0.0023    0.0062    0.0091    ------    0.0006
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0139    0.0108    0.0108    0.0277    0.0143    0.0057
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
           Total PM:    0.0112    0.0112    0.0112    0.0112    0.0213    0.0182    0.0182    0.0395    0.0206    0.0133
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ----------------------------------------------------------------------------------------------------------------------
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 20PMFNH2.IN (file 1, run 2).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2020
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0036    0.0034    0.0034    0.0034    0.0120    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0083    0.0043    0.0177    ------    0.0004
            OCARBON:    ------    ------    ------    ------    ------    0.0023    0.0062    0.0091    ------    0.0002
                SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0138    0.0108    0.0108    0.0277    0.0143    0.0046
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
           Total PM:    0.0112    0.0112    0.0113    0.0112    0.0213    0.0182    0.0182    0.0395    0.0206    0.0120
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 ----------------------------------------------------------------------------------------------------------------------
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 20PMFNH2.IN (file 1, run 3).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2020
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0034    0.0033    0.0033    0.0033    0.0124    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0083    0.0043    0.0178    ------    0.0003
            OCARBON:    ------    ------    ------    ------    ------    0.0023    0.0062    0.0091    ------    0.0002
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0137    0.0108    0.0108    0.0278    0.0144    0.0044
```

```
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0212    0.0182    0.0182    0.0396    0.0207    0.0118
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 4).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2020
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0119    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0083    0.0043    0.0177    ------    0.0011
            OCARBON:    ------    ------    ------    ------    ------    0.0023    0.0062    0.0091    ------    0.0006
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0139    0.0108    0.0108    0.0277    0.0143    0.0057
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0213    0.0182    0.0182    0.0395    0.0206    0.0133
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 5).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2020
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0119    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0083    0.0043    0.0177    ------    0.0011
            OCARBON:    ------    ------    ------    ------    ------    0.0023    0.0062    0.0091    ------    0.0006
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0139    0.0108    0.0108    0.0277    0.0143    0.0057
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0213    0.0182    0.0182    0.0395    0.0206    0.0133
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 6).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2020
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
```

```
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
            GASPM:    0.0036    0.0034    0.0034    0.0034    0.0120    ------    ------    ------    0.0142    0.0035
          ECARBON:    ------    ------    ------    ------    ------    0.0083    0.0043    0.0177    ------    0.0004
          OCARBON:    ------    ------    ------    ------    ------    0.0023    0.0062    0.0091    ------    0.0002
              SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0138    0.0108    0.0108    0.0277    0.0143    0.0046
            Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
             Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
         Total PM:    0.0112    0.0112    0.0113    0.0112    0.0213    0.0182    0.0182    0.0395    0.0206    0.0120
              SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 7).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2020
                                     Month:  July
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
            GASPM:    0.0034    0.0033    0.0033    0.0033    0.0124    ------    ------    ------    0.0142    0.0034
          ECARBON:    ------    ------    ------    ------    ------    0.0083    0.0043    0.0178    ------    0.0003
          OCARBON:    ------    ------    ------    ------    ------    0.0023    0.0062    0.0091    ------    0.0002
              SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0137    0.0108    0.0108    0.0278    0.0144    0.0044
            Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
             Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
         Total PM:    0.0112    0.0113    0.0113    0.0113    0.0212    0.0182    0.0182    0.0396    0.0207    0.0118
              SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 8).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2020
                                     Month:  July
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
            GASPM:    0.0037    0.0035    0.0035    0.0035    0.0119    ------    ------    ------    0.0142    0.0035
          ECARBON:    ------    ------    ------    ------    ------    0.0083    0.0043    0.0177    ------    0.0011
          OCARBON:    ------    ------    ------    ------    ------    0.0023    0.0062    0.0091    ------    0.0006
              SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0139    0.0108    0.0108    0.0277    0.0143    0.0057
            Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
             Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
         Total PM:    0.0112    0.0112    0.0112    0.0112    0.0213    0.0182    0.0182    0.0395    0.0206    0.0133
              SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 9).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2020 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2020
                                     Month:  Jan.
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No
```

```
       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0122    ------    ------    ------    0.0142    0.0035
           ECARBON:    ------    ------    ------    ------    ------    0.0084    0.0044    0.0186    ------    0.0012
           OCARBON:    ------    ------    ------    ------    ------    0.0024    0.0064    0.0095    ------    0.0006
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0142    0.0110    0.0111    0.0290    0.0143    0.0058
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0217    0.0183    0.0184    0.0408    0.0206    0.0134
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 10).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2020
                                     Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0034    0.0034    0.0034    0.0124    ------    ------    ------    0.0142    0.0035
           ECARBON:    ------    ------    ------    ------    ------    0.0084    0.0044    0.0186    ------    0.0004
           OCARBON:    ------    ------    ------    ------    ------    0.0024    0.0064    0.0095    ------    0.0002
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0142    0.0110    0.0111    0.0290    0.0143    0.0046
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0112    0.0113    0.0112    0.0217    0.0183    0.0184    0.0408    0.0206    0.0121
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 11).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2020
                                     Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0034    0.0033    0.0033    0.0033    0.0128    ------    ------    ------    0.0142    0.0034
           ECARBON:    ------    ------    ------    ------    ------    0.0084    0.0044    0.0186    ------    0.0003
           OCARBON:    ------    ------    ------    ------    ------    0.0024    0.0064    0.0096    ------    0.0002
               SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0141    0.0110    0.0111    0.0291    0.0144    0.0045
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0113    0.0113    0.0113    0.0113    0.0216    0.0183    0.0184    0.0409    0.0207    0.0119
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 12).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2020
```

```
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0122    ------    ------    ------    0.0142    0.0035
           ECARBON:    ------    ------    ------    ------    ------    0.0084    0.0044    0.0186    ------    0.0012
           OCARBON:    ------    ------    ------    ------    ------    0.0024    0.0064    0.0095    ------    0.0006
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0142    0.0110    0.0111    0.0290    0.0143    0.0058
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0217    0.0183    0.0184    0.0408    0.0206    0.0134
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 20PMFNH2.IN (file 1, run 13).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2020
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0122    ------    ------    ------    0.0142    0.0035
           ECARBON:    ------    ------    ------    ------    ------    0.0084    0.0044    0.0186    ------    0.0012
           OCARBON:    ------    ------    ------    ------    ------    0.0024    0.0064    0.0095    ------    0.0006
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0142    0.0110    0.0111    0.0290    0.0143    0.0058
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0217    0.0183    0.0184    0.0408    0.0206    0.0134
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 20PMFNH2.IN (file 1, run 14).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2020
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0034    0.0034    0.0034    0.0124    ------    ------    ------    0.0142    0.0035
           ECARBON:    ------    ------    ------    ------    ------    0.0084    0.0044    0.0186    ------    0.0004
           OCARBON:    ------    ------    ------    ------    ------    0.0024    0.0064    0.0095    ------    0.0002
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0142    0.0110    0.0111    0.0290    0.0143    0.0046
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0112    0.0113    0.0112    0.0217    0.0183    0.0184    0.0408    0.0206    0.0121
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 20PMFNH2.IN (file 1, run 15).                          *
**********************************************************************
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2020
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0034    0.0033    0.0033    0.0033    0.0128    ------    ------    ------    0.0142    0.0034
           ECARBON:    ------    ------    ------    ------    ------    0.0084    0.0044    0.0186    ------    0.0003
           OCARBON:    ------    ------    ------    ------    ------    0.0024    0.0064    0.0096    ------    0.0002
               SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0141    0.0110    0.0111    0.0291    0.0144    0.0045
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0113    0.0113    0.0113    0.0113    0.0216    0.0183    0.0184    0.0409    0.0207    0.0119
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 16).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2020
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0122    ------    ------    ------    0.0142    0.0035
           ECARBON:    ------    ------    ------    ------    ------    0.0084    0.0044    0.0186    ------    0.0012
           OCARBON:    ------    ------    ------    ------    ------    0.0024    0.0064    0.0095    ------    0.0006
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0142    0.0110    0.0111    0.0290    0.0143    0.0058
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0217    0.0183    0.0184    0.0408    0.0206    0.0134
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ---------------------------------------------------------------------------------------------------------------------------
```

```
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 1).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2030 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2030
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0035    0.0035    0.0035    0.0081    ------    ------    ------    0.0142    0.0034
           ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0091    ------    0.0006
           OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0046    ------    0.0003
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0101    0.0085    0.0086    0.0146    0.0143    0.0047
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0176    0.0159    0.0159    0.0264    0.0206    0.0124
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 2).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2030
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0034    0.0034    0.0034    0.0083    ------    ------    ------    0.0142    0.0034
           ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0091    ------    0.0002
           OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0046    ------    0.0001
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0005
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0101    0.0085    0.0086    0.0146    0.0143    0.0043
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0176    0.0159    0.0159    0.0264    0.0206    0.0117
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 3).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2030
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0034    0.0033    0.0033    0.0033    0.0087    ------    ------    ------    0.0142    0.0034
           ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0091    ------    0.0002
           OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0047    ------    0.0001
               SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0100    0.0085    0.0086    0.0147    0.0144    0.0042
```

```
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0175    0.0159    0.0159    0.0264    0.0207    0.0116
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 ---------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 30PMFNH2.IN (file 1, run 4).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2030
                                       Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0080    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0091    ------    0.0006
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0046    ------    0.0003
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0101    0.0085    0.0086    0.0146    0.0143    0.0047
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0176    0.0159    0.0159    0.0264    0.0206    0.0124
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ---------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 30PMFNH2.IN (file 1, run 5).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2030
                                       Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0035    0.0035    0.0035    0.0081    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0091    ------    0.0006
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0046    ------    0.0003
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0101    0.0085    0.0086    0.0146    0.0143    0.0047
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0176    0.0159    0.0159    0.0264    0.0206    0.0124
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ---------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 30PMFNH2.IN (file 1, run 6).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2030
                                       Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
```

```
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
            GASPM:    0.0036    0.0034    0.0034    0.0034    0.0083    ------    ------    ------    0.0142    0.0035
          ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0091    ------    0.0002
          OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0046    ------    0.0001
              SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0101    0.0085    0.0086    0.0146    0.0143    0.0043
            Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
             Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
         Total PM:    0.0112    0.0112    0.0112    0.0112    0.0176    0.0159    0.0159    0.0264    0.0206    0.0117
              SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 7).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2030
                                     Month:  July
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
            GASPM:    0.0034    0.0033    0.0033    0.0033    0.0087    ------    ------    ------    0.0142    0.0034
          ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0091    ------    0.0002
          OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0047    ------    0.0001
              SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0100    0.0085    0.0086    0.0147    0.0144    0.0042
            Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
             Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
         Total PM:    0.0112    0.0113    0.0113    0.0113    0.0175    0.0159    0.0159    0.0264    0.0207    0.0116
              SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 8).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2030
                                     Month:  July
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
            GASPM:    0.0037    0.0035    0.0035    0.0035    0.0080    ------    ------    ------    0.0142    0.0034
          ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0091    ------    0.0006
          OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0046    ------    0.0003
              SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0101    0.0085    0.0086    0.0146    0.0143    0.0047
            Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
             Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
         Total PM:    0.0112    0.0112    0.0112    0.0112    0.0176    0.0159    0.0159    0.0264    0.0206    0.0124
              SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 9).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2030 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2030
                                     Month:  Jan.
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No
```

```
       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0081    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0092    ------    0.0006
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0047    ------    0.0003
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0102    0.0085    0.0086    0.0148    0.0143    0.0048
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0177    0.0159    0.0159    0.0266    0.0206    0.0124
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 10).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2030
                                     Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0034    0.0034    0.0034    0.0083    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0092    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0047    ------    0.0001
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0101    0.0085    0.0086    0.0148    0.0143    0.0043
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0176    0.0159    0.0159    0.0266    0.0206    0.0117
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 11).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2030
                                     Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0034    0.0033    0.0033    0.0033    0.0087    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0092    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0047    ------    0.0001
               SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0101    0.0085    0.0086    0.0149    0.0144    0.0042
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0176    0.0159    0.0159    0.0266    0.0207    0.0116
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 12).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2030
```

```
                                  Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:      0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:     0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:      0.0037    0.0035    0.0035    0.0035    0.0081    ------    ------    ------    0.0142    0.0034
           ECARBON:      ------    ------    ------    ------    ------    0.0065    0.0034    0.0092    ------    0.0006
           OCARBON:      ------    ------    ------    ------    ------    0.0018    0.0049    0.0047    ------    0.0003
               SO4:      0.0002    0.0004    0.0004    0.0004    0.0021    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:      0.0039    0.0039    0.0039    0.0039    0.0102    0.0085    0.0086    0.0148    0.0143    0.0048
             Brake:      0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:      0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:      0.0112    0.0112    0.0112    0.0112    0.0177    0.0159    0.0159    0.0266    0.0206    0.0124
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:      0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 30PMFNH2.IN (file 1, run 13).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2030
                                  Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:      0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:     0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:      0.0037    0.0035    0.0035    0.0035    0.0081    ------    ------    ------    0.0142    0.0034
           ECARBON:      ------    ------    ------    ------    ------    0.0065    0.0034    0.0092    ------    0.0006
           OCARBON:      ------    ------    ------    ------    ------    0.0018    0.0049    0.0047    ------    0.0003
               SO4:      0.0002    0.0004    0.0004    0.0004    0.0021    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:      0.0039    0.0039    0.0039    0.0039    0.0102    0.0085    0.0086    0.0148    0.0143    0.0048
             Brake:      0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:      0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:      0.0112    0.0112    0.0112    0.0112    0.0177    0.0159    0.0159    0.0266    0.0206    0.0124
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:      0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 30PMFNH2.IN (file 1, run 14).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2030
                                  Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:      0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:     0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:      0.0036    0.0034    0.0034    0.0034    0.0083    ------    ------    ------    0.0142    0.0035
           ECARBON:      ------    ------    ------    ------    ------    0.0065    0.0034    0.0092    ------    0.0002
           OCARBON:      ------    ------    ------    ------    ------    0.0018    0.0049    0.0047    ------    0.0001
               SO4:      0.0003    0.0005    0.0005    0.0005    0.0019    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:      0.0039    0.0039    0.0039    0.0039    0.0101    0.0085    0.0086    0.0148    0.0143    0.0043
             Brake:      0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:      0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:      0.0112    0.0112    0.0112    0.0112    0.0176    0.0159    0.0159    0.0266    0.0206    0.0117
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
               NH3:      0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 30PMFNH2.IN (file 1, run 15).                          *
**********************************************************************
```

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* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2030
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0034    0.0033    0.0033    0.0033    0.0087    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0092    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0047    ------    0.0001
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0101    0.0085    0.0086    0.0149    0.0144    0.0042
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0176    0.0159    0.0159    0.0266    0.0207    0.0116
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 30PMFNH2.IN (file 1, run 16).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2030
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0037    0.0035    0.0035    0.0035    0.0081    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0092    ------    0.0006
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0047    ------    0.0003
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0102    0.0085    0.0086    0.0148    0.0143    0.0048
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0177    0.0159    0.0159    0.0266    0.0206    0.0124
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
```

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 35PMFNH2.IN (file 1, run 1).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2035 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2035
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0036    0.0035    0.0035    0.0035    0.0074    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0005
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0003
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0046
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
           Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0122
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ----------------------------------------------------------------------------------------------------------------------
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 35PMFNH2.IN (file 1, run 2).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2035
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0036    0.0034    0.0034    0.0034    0.0076    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
                SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0005
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0042
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
           Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0116
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 ----------------------------------------------------------------------------------------------------------------------
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 35PMFNH2.IN (file 1, run 3).                             *
************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2035
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0034    0.0033    0.0033    0.0033    0.0080    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0039    ------    0.0001
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0093    0.0085    0.0086    0.0123    0.0144    0.0041
```

```
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0159    0.0159    0.0241    0.0207    0.0115
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 ----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 4).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2035
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0073    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0005
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0003
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0046
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0122
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 5).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2035
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0035    0.0035    0.0035    0.0073    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0005
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0003
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0046
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0122
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 6).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2035
                                      Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
```

```
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
            GASPM:    0.0036    0.0034    0.0034    0.0034    0.0075    ------    ------    ------    0.0142    0.0034
          ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0002
          OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
              SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0005
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0042
            Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
             Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
         Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0116
              SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 7).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2035
                                     Month:  July
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
            GASPM:    0.0034    0.0033    0.0033    0.0033    0.0080    ------    ------    ------    0.0142    0.0034
          ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
          OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0039    ------    0.0001
              SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0093    0.0085    0.0086    0.0123    0.0144    0.0041
            Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
             Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
         Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0159    0.0159    0.0241    0.0207    0.0115
              SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 8).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2035
                                     Month:  July
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
              Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
            GASPM:    0.0037    0.0035    0.0035    0.0035    0.0073    ------    ------    ------    0.0142    0.0034
          ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0005
          OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0003
              SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0046
            Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
             Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
         Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0122
              SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 9).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2035 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2035
                                     Month:  Jan.
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   15. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  No
```

```
       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0035    0.0035    0.0035    0.0073    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0005
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0003
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0046
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0122
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 10).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2035
                                     Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0034    0.0034    0.0034    0.0075    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
                SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0042
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0116
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 11).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2035
                                     Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0034    0.0033    0.0033    0.0033    0.0080    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0039    ------    0.0001
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0093    0.0085    0.0086    0.0123    0.0144    0.0041
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0159    0.0159    0.0241    0.0207    0.0115
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 12).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2035
```

```
                                  Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0073    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0005
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0003
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0046
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0122
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 35PMFNH2.IN (file 1, run 13).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2035
                                  Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0037    0.0035    0.0035    0.0035    0.0073    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0005
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0003
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0046
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0122
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 35PMFNH2.IN (file 1, run 14).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2035
                                  Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   15. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0036    0.0034    0.0034    0.0034    0.0075    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
                SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0042
             Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
              Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0116
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0088
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0989
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 35PMFNH2.IN (file 1, run 15).                          *
**********************************************************************
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2035
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0034    0.0033    0.0033    0.0033    0.0080    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0039    ------    0.0001
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0093    0.0085    0.0086    0.0123    0.0144    0.0041
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0064    0.0010    0.0021
           Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0159    0.0159    0.0241    0.0207    0.0115
                SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0087
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0995
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 35PMFNH2.IN (file 1, run 16).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2035
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   15. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0037    0.0035    0.0035    0.0035    0.0073    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0005
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0003
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0086    0.0123    0.0143    0.0046
              Brake:    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053    0.0053
               Tire:    0.0020    0.0020    0.0020    0.0020    0.0022    0.0020    0.0020    0.0065    0.0010    0.0023
           Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0122
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0131    0.0033    0.0091
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0952
 -----------------------------------------------------------------------------------------------------------------------
```

APPENDIX F

NOx PRECURSOR EMISSION OUTPUT FILES

```
*******************************************************************************

* MOBILE6.2.03 (24-Sep-2003)                                                 *
* Input file: 09PMFNH2.IN (file 1, run 1).                                   *
*********************************************************************
***** SUMMER RUNS****
********************Fairfield Expressway ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2009\09SVMT1S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2009 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

* 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
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2009
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

```
   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3817    0.3918    0.1336              0.0265    0.0003    0.0020    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.423     0.344     0.498     0.383     0.529    0.151     0.256     0.296      3.48     0.398
     Composite NOX :      0.440     0.510     0.750     0.571     2.923    0.482     0.715    10.746      1.73     1.229
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 2).                              *
*************************************************************************
******************Fairfield Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2009\09SVMT1S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2009
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm
```

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.4046    0.4154    0.1417              0.0098    0.0004    0.0021    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.520     0.411     0.602     0.459     0.798    0.197     0.345     0.459      3.75     0.495
     Composite NOX :      0.433     0.497     0.743     0.560     2.447    0.351     0.520     7.064      1.36     0.682
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 09PMFNH2.IN (file 1, run 3).                          *
*********************************************************************
******************Fairfield  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2009
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
```

```
                 Weathered RVP:   6.8 psi
            Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.4084    0.4193    0.1430              0.0064    0.0004    0.0021    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.648     0.511     0.746     0.571     1.351    0.288     0.523     0.786      4.70     0.630
     Composite NOX :      0.393     0.460     0.687     0.518     2.100    0.436     0.646     7.922      1.15     0.595
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 09PMFNH2.IN (file 1, run 4).                           *
**********************************************************************
********************Fairfield Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2009
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
```

```
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3817    0.3918    0.1336              0.0265    0.0003    0.0020    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.505     0.399     0.581     0.445     0.626    0.173     0.299     0.375      3.38     0.470
     Composite NOX :      0.495     0.548     0.824     0.618     2.525    0.324     0.479     5.932      1.40     0.958
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 09PMFNH2.IN (file 1, run 5).                          *
*********************************************************************
********************New Haven Expressway ******************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2009\09SVMT5S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
```

```
                    Calendar Year:  2009
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
                   Weathered RVP:   6.8 psi
             Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3817    0.3918    0.1336              0.0265    0.0003    0.0020    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.418     0.341     0.492     0.380     0.516    0.148     0.251     0.287      3.52     0.394
     Composite NOX :      0.443     0.513     0.754     0.574     2.960    0.502     0.745    11.132      1.78     1.257
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 6).                              *
*************************************************************************
******************New Haven Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2009\09SVMT5S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
```

```
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2009
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.4046    0.4154    0.1417              0.0098    0.0004    0.0021    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.504     0.399     0.586     0.446     0.757    0.191     0.334     0.439      3.66     0.480
     Composite NOX :      0.428     0.491     0.735     0.553     2.471    0.348     0.514     6.991      1.37     0.674
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 09PMFNH2.IN (file 1, run 7).                          *
*********************************************************************
******************New Haven  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
```

```
             there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2009
                             Month:  July
                          Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
                   Weathered RVP:   6.8 psi
             Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.4084    0.4193    0.1430              0.0064    0.0004    0.0021    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.648     0.511     0.746     0.571     1.351    0.288     0.523     0.786      4.70     0.630
     Composite NOX :      0.393     0.460     0.687     0.518     2.100    0.436     0.646     7.922      1.15     0.595
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 8).                              *
*************************************************************************
********************New Haven Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
```

```
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2009
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3817    0.3918    0.1336              0.0265    0.0003    0.0020    0.0633    0.0007    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.505     0.399     0.581     0.445     0.626    0.173     0.299     0.375      3.38     0.470
     Composite NOX :      0.495     0.548     0.824     0.618     2.525    0.324     0.479     5.932      1.40     0.958
  -----------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 09PMFNH2.IN (file 1, run 9).                          *
*********************************************************************
********************** WINTER RUNS  ************************************************************
*********************Fairfield Expressway ******************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2009\09SVMT1W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2009 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2009
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3818    0.3918    0.1336              0.0264    0.0003    0.0020    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.443     0.385     0.598     0.439     0.474    0.150     0.260     0.287      3.62     0.434
     Composite NOX :      0.527     0.627     0.943     0.707     3.363    0.530     0.807    11.759      2.13     1.410
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 10).                             *
*************************************************************************
******************Fairfield Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2009\09SVMT1W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

* Reading PM Gas Carbon DR2 Levels
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* 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
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2009
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.4046    0.4154    0.1417              0.0098    0.0004    0.0021    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.540     0.448     0.709     0.515     0.793    0.197     0.353     0.453      3.80     0.534
     Composite NOX :      0.497     0.594     0.913     0.675     2.788    0.365     0.554     7.333      1.63     0.782
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 09PMFNH2.IN (file 1, run 11).                         *
*********************************************************************
******************Fairfield  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
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```
* 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
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2009
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.4084    0.4193    0.1430              0.0064    0.0004    0.0021    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.688     0.558     0.876     0.639     1.549    0.297     0.553     0.810      4.89     0.688
     Composite NOX :      0.449     0.553     0.850     0.628     2.373    0.459     0.698     8.292      1.38     0.689
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 09PMFNH2.IN (file 1, run 12).                         *
*********************************************************************
*******************Fairfield Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2009
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3818    0.3918    0.1336              0.0264    0.0003    0.0020    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.544     0.454     0.710     0.519     0.621    0.178     0.315     0.386      3.50     0.525
     Composite NOX :      0.593     0.669     1.030     0.761     2.853    0.341     0.517     6.215      1.68     1.097
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 13).                             *
*************************************************************************
********************New Haven Expressway ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2009\09SVMT5W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
```

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

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2009
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3818    0.3918    0.1336              0.0264    0.0003    0.0020    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.441     0.384     0.595     0.437     0.469     0.149     0.258     0.285      3.67     0.432
     Composite NOX :      0.530     0.630     0.947     0.710     3.387     0.546     0.833    12.082      2.17     1.434
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 09PMFNH2.IN (file 1, run 14).                         *
*********************************************************************
******************New Haven Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2009\09SVMT5W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
```

```
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2009
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.4046    0.4154    0.1417              0.0098    0.0004    0.0021    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.525     0.438     0.693     0.503     0.747    0.192     0.343     0.435      3.72     0.520
     Composite NOX :      0.492     0.589     0.905     0.669     2.814    0.362     0.549     7.268      1.64     0.776
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 09PMFNH2.IN (file 1, run 15).                             *
*************************************************************************
******************New Haven  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY
```

```
  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2009
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.4084    0.4193    0.1430              0.0064    0.0004    0.0021    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.688     0.558     0.876     0.639     1.549    0.297     0.553     0.810      4.89     0.688
     Composite NOX :      0.449     0.553     0.850     0.628     2.373    0.459     0.698     8.292      1.38     0.689
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 09PMFNH2.IN (file 1, run 16).                         *
*********************************************************************
*******************New Haven Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2009 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2009
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3818    0.3918    0.1336              0.0264    0.0003    0.0020    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.544     0.454     0.710     0.519     0.621    0.178     0.315     0.386      3.50     0.525
     Composite NOX :      0.593     0.669     1.030     0.761     2.853    0.341     0.517     6.215      1.68     1.097

  ---------------------------------------------------------------------------------------------------------------------------
```

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 10PMFNH2.IN (file 1, run 1).                             *
************************************************************************
***** SUMMER RUNS****
********************Fairfield Expressway ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2010\10SVMT1S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2010 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

* 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 NLEVNE.D
                     Calendar Year:  2010
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  51.9 (F)
               Maximum Temperature:  74.9 (F)
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:   6.8 psi
                     Weathered RVP:   6.8 psi
               Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.382     0.315     0.463     0.352     0.490    0.117     0.231     0.277      3.46     0.364
     Composite NOX :      0.392     0.449     0.681     0.508     2.542    0.377     0.620     9.445      1.73     1.086
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 10PMFNH2.IN (file 1, run 2).                          *
*********************************************************************
******************Fairfield Arterials/Collectors ***************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2010\10SVMT1S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3908    0.4257    0.1451              0.0098    0.0003    0.0022    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.466     0.374     0.557     0.420     0.731    0.154     0.310     0.430      3.73     0.449
     Composite NOX :      0.386     0.438     0.675     0.498     2.129    0.275     0.450     6.238      1.36     0.607
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 3).                              *
*************************************************************************
******************Fairfield  Local ****************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2010
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3944    0.4297    0.1464              0.0065    0.0004    0.0022    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.581     0.466     0.690     0.523     1.220    0.228     0.469     0.735      4.68     0.573
     Composite NOX :      0.351     0.408     0.625     0.463     1.826    0.341     0.560     7.026      1.15     0.534
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 10PMFNH2.IN (file 1, run 4).                          *
*********************************************************************
*******************Fairfield Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2010
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.451     0.360     0.537     0.405     0.576    0.135     0.269     0.351      3.36     0.425
     Composite NOX :      0.438     0.479     0.748     0.548     2.197    0.254     0.415     5.257      1.40     0.849
  -----------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 10PMFNH2.IN (file 1, run 5).                          *
*********************************************************************
********************New Haven Expressway ******************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2010\10SVMT5S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.378     0.312     0.458     0.350     0.479    0.115     0.227     0.269      3.50     0.360
     Composite NOX :      0.395     0.453     0.684     0.511     2.573    0.392     0.645     9.777      1.78     1.110
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 10PMFNH2.IN (file 1, run 6).                          *
*********************************************************************
******************New Haven Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2010\10SVMT5S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2010
                             Month:  July
                          Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
                   Weathered RVP:   6.8 psi
             Fuel Sulfur Content:   30. ppm

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

```
   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3908    0.4257    0.1451              0.0098    0.0003    0.0022    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.456     0.366     0.545     0.411     0.703    0.150     0.303     0.415      3.66     0.439
     Composite NOX :      0.382     0.435     0.670     0.494     2.147    0.273     0.447     6.191      1.37     0.602
  ---------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 10PMFNH2.IN (file 1, run 7).                           *
**********************************************************************
******************New Haven  Local *****************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2010
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

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

```
   Ether Blend Oxygen Content: 0.000     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:    0.3944    0.4297    0.1464              0.0065    0.0004    0.0022    0.0156    0.0048    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.581     0.466     0.690     0.523     1.220    0.228     0.469     0.735      4.68     0.573
     Composite NOX :      0.351     0.408     0.625     0.463     1.826    0.341     0.560     7.026      1.15     0.534
  -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 8).                              *
*************************************************************************
*******************New Haven Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2010
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.451     0.360     0.537     0.405     0.576    0.135     0.269     0.351      3.36     0.425
     Composite NOX :      0.438     0.479     0.748     0.548     2.197    0.254     0.415     5.257      1.40     0.849
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 10PMFNH2.IN (file 1, run 9).                          *
*********************************************************************
********************** WINTER RUNS  ************************************************************
*********************Fairfield Expressway ***************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2010\10SVMT1W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2010 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
```

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.399     0.350     0.551     0.401     0.436    0.116     0.234     0.268      3.60     0.395
     Composite NOX :      0.469     0.551     0.856     0.628     2.925    0.415     0.697    10.566      2.13     1.260
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 10PMFNH2.IN (file 1, run 10).                         *
*********************************************************************
******************Fairfield Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2010\10SVMT1W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
```

```
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3908    0.4257    0.1451              0.0098    0.0003    0.0022    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.481     0.404     0.649     0.466     0.718    0.153     0.317     0.422      3.77     0.481
     Composite NOX :      0.441     0.521     0.828     0.599     2.425    0.285     0.478     6.623      1.63     0.699
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 10PMFNH2.IN (file 1, run 11).                          *
**********************************************************************
******************Fairfield  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  26.2 (F)
```

```
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3944    0.4297    0.1464              0.0065    0.0004    0.0022    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.615     0.504     0.804     0.581     1.390    0.234     0.495     0.755      4.87     0.622
     Composite NOX :      0.401     0.488     0.774     0.561     2.062    0.359     0.603     7.554      1.38     0.621
  ---------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 10PMFNH2.IN (file 1, run 12).                          *
**********************************************************************
*******************Fairfield Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2010
                            Month:  Jan.
```

```
                    Altitude:  Low
          Minimum Temperature:  26.2 (F)
          Maximum Temperature:  45.4 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:  13.0 psi
                Weathered RVP:  13.0 psi
          Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.485     0.407     0.649     0.468     0.567    0.138     0.283     0.360      3.48     0.472
     Composite NOX :      0.524     0.582     0.934     0.672     2.482    0.267     0.447     5.654      1.68     0.980
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 10PMFNH2.IN (file 1, run 13).                         *
*********************************************************************
********************New Haven Expressway ******************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2010\10SVMT5W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
```

```
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.398     0.349     0.549     0.400     0.433    0.115     0.233     0.267      3.66     0.393
     Composite NOX :      0.471     0.553     0.859     0.631     2.944    0.427     0.719    10.849      2.17     1.281
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 10PMFNH2.IN (file 1, run 14).                         *
*********************************************************************
******************New Haven Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2010\10SVMT5W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
```

```
 M 48 Warning:
             there are no sales for vehicle class HDGV8b
HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
 M111 Warning:
              The input dIesel sulfur level of  43.0 ppm exceeds
              the 2007 HDD Rule diesel sulfur limit of 15 ppm.

LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2010
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3908    0.4257    0.1451              0.0098    0.0003    0.0022    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.473     0.397     0.639     0.459     0.689    0.150     0.310     0.409      3.72     0.473
     Composite NOX :      0.438     0.518     0.824     0.596     2.444    0.284     0.475     6.587      1.64     0.695
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 10PMFNH2.IN (file 1, run 15).                         *
*********************************************************************
******************New Haven  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

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

```
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
                The input dIesel sulfur level of  43.0 ppm exceeds
                the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2010
                             Month:  Jan.
                          Altitude:  Low
               Minimum Temperature:  26.2 (F)
               Maximum Temperature:  45.4 (F)
                 Absolute Humidity:   75. grains/lb
                  Nominal Fuel RVP:  13.0 psi
                     Weathered RVP:  13.0 psi
               Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3944    0.4297    0.1464              0.0065    0.0004    0.0022    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.615     0.504     0.804     0.581     1.390    0.234     0.495     0.755      4.87     0.622
     Composite NOX :      0.401     0.488     0.774     0.561     2.062    0.359     0.603     7.554      1.38     0.621
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 10PMFNH2.IN (file 1, run 16).                             *
*************************************************************************
********************New Haven Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2010 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.
  M111 Warning:
               The input dIesel sulfur level of  43.0 ppm exceeds
               the 2007 HDD Rule diesel sulfur limit of 15 ppm.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2010
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3688    0.4016    0.1369              0.0264    0.0003    0.0021    0.0633    0.0007    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.485     0.407     0.649     0.468     0.567    0.138     0.283     0.360      3.48     0.472
     Composite NOX :      0.524     0.582     0.934     0.672     2.482    0.267     0.447     5.654      1.68     0.980

  ---------------------------------------------------------------------------------------------------------------------------
```

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 20PMFNH2.IN (file 1, run 1).                             *
************************************************************************
***** SUMMER RUNS****
********************Fairfield Expressway ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2020\20SVMT1S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2020 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

* 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 NLEVNE.D
                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.172     0.172     0.244     0.190     0.223    0.046     0.099     0.189      2.95     0.187
     Composite NOX :      0.128     0.181     0.300     0.211     0.668    0.059     0.200     2.272      1.73     0.330
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 20PMFNH2.IN (file 1, run 2).                          *
*********************************************************************
******************Fairfield Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2020\20SVMT1S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2020
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
                   Weathered RVP:   6.8 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
```

```
                Reformulated Gas:  No

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.214     0.204     0.288     0.226     0.336    0.061     0.133     0.293      3.22     0.232
     Composite NOX :      0.127     0.176     0.296     0.207     0.561    0.043     0.147     1.526      1.36     0.219
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 20PMFNH2.IN (file 1, run 3).                          *
*********************************************************************
******************Fairfield  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
                   Weathered RVP:   6.8 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
```

```
                    ATP Program:  Yes
                Reformulated Gas:  No

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.277     0.264     0.362     0.289     0.553    0.091     0.200     0.498      4.15     0.308
     Composite NOX :      0.118     0.165     0.267     0.191     0.480    0.053     0.181     1.757      1.15     0.199
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 20PMFNH2.IN (file 1, run 4).                          *
*********************************************************************
*******************Fairfield Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
                   Weathered RVP:   6.8 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
```

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.196     0.188     0.272     0.209     0.263    0.053     0.115     0.237      2.84     0.210
     Composite NOX :      0.140     0.190     0.337     0.227     0.578    0.039     0.135     1.304      1.40     0.279
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 20PMFNH2.IN (file 1, run 5).                          *
*********************************************************************
********************New Haven Expressway ******************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2020\20SVMT5S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
```

```
                 Weathered RVP:   6.8 psi
            Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.169     0.170     0.240     0.188     0.213    0.044     0.096     0.180      2.97     0.184
     Composite NOX :      0.129     0.183     0.303     0.213     0.680    0.061     0.210     2.367      1.78     0.338
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 20PMFNH2.IN (file 1, run 6).                           *
**********************************************************************
******************New Haven Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2020\20SVMT5S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                  Calendar Year:  2020
                          Month:  July
                       Altitude:  Low
```

```
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.209     0.200     0.282     0.221     0.325    0.060     0.131     0.285      3.16     0.227
     Composite NOX :      0.126     0.174     0.293     0.205     0.564    0.043     0.145     1.508      1.36     0.217
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 20PMFNH2.IN (file 1, run 7).                           *
**********************************************************************
******************New Haven  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2020
                            Month:  July
```

```
                    Altitude:  Low
          Minimum Temperature:  51.9 (F)
          Maximum Temperature:  74.9 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   6.8 psi
                Weathered RVP:   6.8 psi
          Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.277     0.264     0.362     0.289     0.553    0.091     0.200     0.498      4.15     0.308
     Composite NOX :      0.118     0.165     0.267     0.191     0.480    0.053     0.181     1.757      1.15     0.199
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 20PMFNH2.IN (file 1, run 8).                          *
*********************************************************************
*******************New Haven Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2020
```

```
                          Month:  July
                       Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2913    0.4596    0.1567               0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.196     0.188     0.272     0.209     0.263    0.053     0.115     0.237      2.84     0.210
     Composite NOX :      0.140     0.190     0.337     0.227     0.578    0.039     0.135     1.304      1.40     0.279
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 20PMFNH2.IN (file 1, run 9).                          *
*********************************************************************
********************** WINTER RUNS  ***********************************************************
*********************Fairfield Expressway *****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2020\20SVMT1W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2020 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
```

```
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.182     0.189     0.279     0.212     0.194    0.044     0.098     0.180      3.03     0.202
     Composite NOX :      0.147     0.203     0.362     0.243     0.758    0.063     0.215     2.502      2.13     0.372
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 10).                             *
*************************************************************************
******************Fairfield Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2020\20SVMT1W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
```

```
   data file: TECH12.D
 M 48 Warning:
             there are no sales for vehicle class HDGV8b
 M 48 Warning:
             there are no sales for vehicle class LDDT12
HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2020
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

  Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
  Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.220     0.214     0.319     0.241     0.323    0.059     0.132     0.283      3.21     0.243
    Composite NOX :      0.138     0.191     0.348     0.231     0.631    0.044     0.149     1.594      1.63     0.241
 ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 20PMFNH2.IN (file 1, run 11).                         *
*********************************************************************
******************Fairfield  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

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

```
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2020
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.291     0.274     0.400     0.306     0.609    0.091     0.205     0.502      4.28     0.325
     Composite NOX :      0.128     0.180     0.316     0.215     0.536    0.054     0.187     1.856      1.38     0.221
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 20PMFNH2.IN (file 1, run 12).                         *
*********************************************************************
*******************Fairfield Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
```

```
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.208     0.204     0.313     0.232     0.251    0.053     0.118     0.239      2.90     0.227
     Composite NOX :      0.162     0.209     0.403     0.258     0.645    0.040     0.139     1.378      1.68     0.312
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 20PMFNH2.IN (file 1, run 13).                             *
*************************************************************************
********************New Haven Expressway ******************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2020\20SVMT5W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.181     0.188     0.277     0.211     0.188    0.044     0.096     0.175      3.07     0.201
     Composite NOX :      0.149     0.205     0.364     0.245     0.767    0.065     0.224     2.588      2.18     0.379
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 20PMFNH2.IN (file 1, run 14).                          *
**********************************************************************
******************New Haven Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2020\20SVMT5W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2020
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.215     0.210     0.314     0.236     0.309    0.058     0.130     0.275      3.15     0.238
     Composite NOX :      0.137     0.189     0.345     0.229     0.634    0.043     0.148     1.577      1.64     0.239
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 20PMFNH2.IN (file 1, run 15).                         *
*********************************************************************
******************New Haven  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

* Reading PM Gas Carbon DR2 Levels
```

```
* from the external data file PMGDR2.CSV

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.291     0.274     0.400     0.306     0.609    0.091     0.205     0.502      4.28     0.325
     Composite NOX :      0.128     0.180     0.316     0.215     0.536    0.054     0.187     1.856      1.38     0.221
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 20PMFNH2.IN (file 1, run 16).                         *
*********************************************************************
*******************New Haven Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2020 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2020
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2913    0.4596    0.1567              0.0262    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.208     0.204     0.313     0.232     0.251    0.053     0.118     0.239      2.90     0.227
     Composite NOX :      0.162     0.209     0.403     0.258     0.645    0.040     0.139     1.378      1.68     0.312
  ---------------------------------------------------------------------------------------------------------------------
```

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 30PMFNH2.IN (file 1, run 1).                             *
************************************************************************
***** SUMMER RUNS****
********************Fairfield Expressway ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2030\30SVMT1S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2030 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

* 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 NLEVNE.D
                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.151     0.163     0.200     0.173     0.155    0.037     0.073     0.176      2.76     0.168
     Composite NOX :      0.099     0.162     0.236     0.181     0.210    0.033     0.143     0.752      1.71     0.195
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 2).                          *
*********************************************************************
******************Fairfield Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2030\30SVMT1S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
                   Weathered RVP:   6.8 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
```

```
                Reformulated Gas:  No

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.195     0.199     0.244     0.210     0.250    0.050     0.101     0.273      3.08     0.214
     Composite NOX :      0.100     0.160     0.235     0.179     0.177    0.025     0.107     0.560      1.35     0.166
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 3).                          *
*********************************************************************
******************Fairfield  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
                   Weathered RVP:   6.8 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
```

```
                    ATP Program:  Yes
                Reformulated Gas:  No

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.252     0.253     0.306     0.266     0.404    0.074     0.153     0.451      3.95     0.283
     Composite NOX :      0.091     0.147     0.204     0.162     0.152    0.031     0.131     0.692      1.15     0.153
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 4).                          *
*********************************************************************
*******************Fairfield Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
```

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.178     0.223     0.189     0.183    0.042     0.085     0.215      2.65     0.187
     Composite NOX :      0.112     0.172     0.272     0.198     0.183    0.023     0.097     0.506      1.40     0.192
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 5).                          *
*********************************************************************
********************New Haven Expressway ******************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2030\30SVMT5S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
```

```
                 Weathered RVP:   6.8 psi
            Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.148     0.161     0.197     0.170     0.146     0.036     0.070     0.166      2.77     0.164
     Composite NOX :      0.099     0.164     0.239     0.183     0.214     0.035     0.149     0.788      1.76     0.198
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 6).                              *
*************************************************************************
******************New Haven Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2030\30SVMT5S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
```

```
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.190     0.193     0.237     0.205     0.239    0.049     0.099     0.265      3.01     0.208
     Composite NOX :      0.099     0.158     0.232     0.177     0.178    0.025     0.105     0.552      1.36     0.164
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 30PMFNH2.IN (file 1, run 7).                           *
**********************************************************************
******************New Haven  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2030
                            Month:  July
```

```
                    Altitude:  Low
          Minimum Temperature:  51.9 (F)
          Maximum Temperature:  74.9 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   6.8 psi
                Weathered RVP:   6.8 psi
          Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.252     0.253     0.306     0.266     0.404    0.074     0.153     0.451      3.95     0.283
     Composite NOX :      0.091     0.147     0.204     0.162     0.152    0.031     0.131     0.692      1.15     0.153
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 8).                          *
*********************************************************************
*******************New Haven Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
  M 48 Warning:
               there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2030
```

```
                          Month:  July
                       Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567               0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.178     0.223     0.189     0.183    0.042     0.085     0.215      2.65     0.187
     Composite NOX :      0.112     0.172     0.272     0.198     0.183    0.023     0.097     0.506      1.40     0.192
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 9).                          *
*********************************************************************
********************** WINTER RUNS  ***********************************************************
*********************Fairfield Expressway *****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2030\30SVMT1W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2030 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
```

```
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.160     0.177     0.227     0.190     0.134    0.035     0.070     0.164      2.80     0.180
     Composite NOX :      0.111     0.179     0.279     0.204     0.228    0.035     0.149     0.798      2.10     0.216
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 10).                             *
*************************************************************************
******************Fairfield Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2030\30SVMT1W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
```

```
   data file: TECH12.D
 M 48 Warning:
             there are no sales for vehicle class HDGV8b
 M 48 Warning:
             there are no sales for vehicle class LDDT12
HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2030
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

  Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
  Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.200     0.205     0.265     0.221     0.239    0.048     0.098     0.261      3.05     0.222
    Composite NOX :      0.105     0.170     0.268     0.195     0.190    0.025     0.105     0.561      1.63     0.179
 ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 11).                         *
*********************************************************************
******************Fairfield  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

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

```
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2030
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.263     0.260     0.333     0.279     0.439    0.073     0.153     0.451      4.06     0.296
     Composite NOX :      0.095     0.157     0.235     0.177     0.162    0.031     0.131     0.704      1.38     0.165
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 12).                         *
*********************************************************************
*******************Fairfield Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
```

```
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.183     0.192     0.253     0.207     0.175    0.042     0.085     0.215      2.69     0.201
     Composite NOX :      0.128     0.187     0.318     0.220     0.195    0.023     0.097     0.515      1.68     0.212
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 30PMFNH2.IN (file 1, run 13).                             *
*************************************************************************
********************New Haven Expressway ******************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2030\30SVMT5W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.157     0.176     0.225     0.189     0.128    0.035     0.069     0.159      2.84     0.178
     Composite NOX :      0.112     0.180     0.281     0.206     0.231    0.036     0.155     0.833      2.16     0.220
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 14).                         *
*********************************************************************
******************New Haven Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2030\30SVMT5W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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* 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
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2030
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.194     0.200     0.259     0.215     0.227    0.047     0.096     0.254      2.98     0.216
     Composite NOX :      0.104     0.168     0.265     0.193     0.191    0.024     0.104     0.553      1.63     0.177
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 15).                         *
*********************************************************************
******************New Haven  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

* Reading PM Gas Carbon DR2 Levels
```

```
* from the external data file PMGDR2.CSV

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.263     0.260     0.333     0.279     0.439    0.073     0.153     0.451      4.06     0.296
     Composite NOX :      0.095     0.157     0.235     0.177     0.162    0.031     0.131     0.704      1.38     0.165
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 30PMFNH2.IN (file 1, run 16).                         *
*********************************************************************
*******************New Haven Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2030 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2030
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.183     0.192     0.253     0.207     0.175    0.042     0.085     0.215      2.69     0.201
     Composite NOX :      0.128     0.187     0.318     0.220     0.195    0.023     0.097     0.515      1.68     0.212
  ---------------------------------------------------------------------------------------------------------------------
```

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************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 35PMFNH2.IN (file 1, run 1).                             *
************************************************************************
***** SUMMER RUNS****
********************Fairfield Expressway ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2035\35SVMT1S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2035 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

* 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 NLEVNE.D
                    Calendar Year:  2035
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.152     0.164     0.199     0.173     0.155    0.037     0.073     0.177      2.76     0.168
     Composite NOX :      0.098     0.162     0.233     0.180     0.189    0.033     0.139     0.582      1.69     0.183
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 35PMFNH2.IN (file 1, run 2).                          *
*********************************************************************
******************Fairfield Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2035\35SVMT1S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2035
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
                   Weathered RVP:   6.8 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
                     ATP Program:  Yes
```

```
                Reformulated Gas:  No

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.197     0.201     0.244     0.212     0.250    0.050     0.101     0.273      3.11     0.216
     Composite NOX :      0.100     0.161     0.233     0.179     0.159    0.025     0.106     0.441      1.35     0.164
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 35PMFNH2.IN (file 1, run 3).                          *
*********************************************************************
******************Fairfield  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2035
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
                   Weathered RVP:   6.8 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  Yes
```

```
                    ATP Program:  Yes
                Reformulated Gas:  No

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.251     0.253     0.304     0.266     0.398    0.073     0.150     0.445      3.95     0.282
     Composite NOX :      0.091     0.147     0.202     0.161     0.138    0.030     0.129     0.541      1.15     0.150
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 35PMFNH2.IN (file 1, run 4).                          *
*********************************************************************
*******************Fairfield Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2035
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
```

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.172     0.178     0.221     0.189     0.180    0.042     0.083     0.212      2.65     0.187
     Composite NOX :      0.112     0.172     0.270     0.197     0.166    0.023     0.095     0.396      1.40     0.184
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 35PMFNH2.IN (file 1, run 5).                          *
*********************************************************************
********************New Haven Expressway ******************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2035\35SVMT5S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2035
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   6.8 psi
```

```
                 Weathered RVP:   6.8 psi
            Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.148     0.161     0.196     0.170     0.145    0.036     0.070     0.165      2.76     0.164
     Composite NOX :      0.099     0.164     0.236     0.182     0.193    0.034     0.146     0.611      1.75     0.186
  ---------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 35PMFNH2.IN (file 1, run 6).                               *
**************************************************************************
******************New Haven Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2035\35SVMT5S.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                  Calendar Year:  2035
                          Month:  July
                       Altitude:  Low
```

```
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.191     0.195     0.237     0.206     0.239    0.049     0.098     0.265      3.04     0.210
     Composite NOX :      0.099     0.159     0.230     0.177     0.160    0.025     0.104     0.435      1.35     0.161
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 35PMFNH2.IN (file 1, run 7).                           *
**********************************************************************
******************New Haven  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2035
                            Month:  July
```

```
                    Altitude:  Low
          Minimum Temperature:  51.9 (F)
          Maximum Temperature:  74.9 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   6.8 psi
                Weathered RVP:   6.8 psi
          Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.251     0.253     0.304     0.266     0.398    0.073     0.150     0.445      3.95     0.282
     Composite NOX :      0.091     0.147     0.202     0.161     0.138    0.030     0.129     0.541      1.15     0.150
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 35PMFNH2.IN (file 1, run 8).                          *
*********************************************************************
*******************New Haven Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
  M 48 Warning:
               there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2035
```

```
                          Month:  July
                       Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   6.8 psi
                    Weathered RVP:   6.8 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567               0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.172     0.178     0.221     0.189     0.180    0.042     0.083     0.212      2.65     0.187
     Composite NOX :      0.112     0.172     0.270     0.197     0.166    0.023     0.095     0.396      1.40     0.184
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 35PMFNH2.IN (file 1, run 9).                          *
*********************************************************************
********************** WINTER RUNS  ***********************************************************
*********************Fairfield Expressway *****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2035\35SVMT1W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2035 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
```

```
             there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2035
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.160     0.178     0.225     0.190     0.134    0.035     0.069     0.164      2.80     0.179
     Composite NOX :      0.110     0.178     0.275     0.203     0.204    0.034     0.146     0.609      2.09     0.202
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 10).                             *
*************************************************************************
******************Fairfield Arterials/Collectors **************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2035\35SVMT1W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
```

```
   data file: TECH12.D
 M 48 Warning:
             there are no sales for vehicle class HDGV8b
 M 48 Warning:
             there are no sales for vehicle class LDDT12
HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

LEV phase-in data read from file NLEVNE.D
                   Calendar Year:  2035
                           Month:  Jan.
                        Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:  13.0 psi
                   Weathered RVP:  13.0 psi
             Fuel Sulfur Content:   30. ppm

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

  Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
  Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.201     0.207     0.265     0.221     0.240    0.048     0.097     0.260      3.07     0.223
    Composite NOX :      0.105     0.170     0.266     0.194     0.170    0.024     0.104     0.434      1.62     0.176
 ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 35PMFNH2.IN (file 1, run 11).                         *
*********************************************************************
******************Fairfield  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

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

```
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2035
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.263     0.260     0.330     0.278     0.432    0.073     0.151     0.445      4.06     0.295
     Composite NOX :      0.094     0.157     0.232     0.176     0.145    0.030     0.129     0.541      1.38     0.162
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 35PMFNH2.IN (file 1, run 12).                         *
*********************************************************************
*******************Fairfield Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
```

```
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2035
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.183     0.191     0.251     0.207     0.172     0.042     0.083     0.212      2.69     0.200
     Composite NOX :      0.127     0.186     0.315     0.219     0.175     0.022     0.096     0.396      1.68     0.203
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 35PMFNH2.IN (file 1, run 13).                             *
*************************************************************************
*********************New Haven Expressway ******************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2035\35SVMT5W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTF.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2035
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.157     0.176     0.223     0.188     0.127    0.034     0.067     0.157      2.83     0.177
     Composite NOX :      0.111     0.180     0.277     0.205     0.207    0.036     0.152     0.637      2.15     0.206
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 35PMFNH2.IN (file 1, run 14).                          *
**********************************************************************
******************New Haven Arterials/Collectors *************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: Z:\SER28I\2035\35SVMT5W.CTY

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTA.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                     Calendar Year:  2035
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3087    0.4868    0.1660              0.0097    0.0003    0.0025    0.0235    0.0025    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.195     0.202     0.259     0.216     0.228    0.047     0.095     0.253      3.01     0.218
     Composite NOX :      0.104     0.168     0.263     0.192     0.171    0.024     0.103     0.428      1.63     0.174
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 35PMFNH2.IN (file 1, run 15).                         *
*********************************************************************
******************New Haven  Local ******************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
               User has supplied post-1999 sulfur levels.
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTL.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
               User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

* Reading PM Gas Carbon DR2 Levels
```

```
* from the external data file PMGDR2.CSV

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2035
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.3115    0.4913    0.1675              0.0065    0.0003    0.0025    0.0156    0.0048    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.263     0.260     0.330     0.278     0.432    0.073     0.151     0.445      4.06     0.295
     Composite NOX :      0.094     0.157     0.232     0.176     0.145    0.030     0.129     0.541      1.38     0.162
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 35PMFNH2.IN (file 1, run 16).                         *
*********************************************************************
*******************New Haven Ramp ****************************************************

* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D
  M616 Comment:
              User has supplied post-1999 sulfur levels.
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: CTREG02.D

* Reading I/M program description records from the following external
* data file: CTIM05PL.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no
OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test
that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading Hourly VMT distribution from the following external
* data file: CTHVMT.DEF

* Reading Hourly Roadway VMT distribution from the following external
* data file: FCVMTR.CTY

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2035 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

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

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

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

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

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

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
 HDDV DEFEAT DEVICE EFFECTS ARE PRESENT. THE REBUILD FRACTION IS 0.07.

 LEV phase-in data read from file NLEVNE.D
                    Calendar Year:  2035
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:  13.0 psi
                    Weathered RVP:  13.0 psi
              Fuel Sulfur Content:   30. ppm

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

   Ether Blend Market Share: 0.000       Alcohol Blend Market Share: 1.000
   Ether Blend Oxygen Content: 0.000     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:    0.2914    0.4596    0.1567              0.0261    0.0003    0.0024    0.0629    0.0007    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.183     0.191     0.251     0.207     0.172    0.042     0.083     0.212      2.69     0.200
     Composite NOX :      0.127     0.186     0.315     0.219     0.175    0.022     0.096     0.396      1.68     0.203

  ---------------------------------------------------------------------------------------------------------------------------
```

APPENDIX G

ACRONYMS

Acronyms

Acronym	Meaning
CAAA	Clean Air Act Amendments (1990)
CO	Carbon Monoxide
ConnDOT	Connecticut Department of Transportation
CTDEP	Connecticut Department of Environmental Protection
EPA	U.S. Environmental Protection Agency
FSD	Final Scope Development (Now PD)
ISTEA	Intermodal Surface Transportation Efficiency Act
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NH_3	Ammonia
NOx	Nitrogen Oxides
PD	Preliminary Design (Formerly FSD)
PDWP	Project Development Work Program
$PM_{2.5}$	Fine Particulate Matter
PMT	Person Miles Traveled
RA	Regional Administer
ROP	Rate of Progress
RTP	Regional Transportation Plan (generally refers to Regional Transportation Plan Update)
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users
SD	Study and Development
SIP	State Implementation Plan
SO_x	Sulfur Oxides
STIP	Statewide Transportation Improvement Program
TCM	Transportation Control Measure
TIP	Transportation Improvement Program
USDOT	U.S. Department of Transportation
USEPA	U.S. Environmental Protection Agency
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound