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
2011 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

March 2011

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.

Regional Emissions Analysis

1) OVERVIEW

In March 2007, the Metropolitan Planning Organizations (MPOs) in Connecticut proposed to update their Long Range Plans (LRTPs). These revisions to Connecticut's LRTPs 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 LRTPs. 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.

On December 14, 2009, EPA's final rule designating areas for the 2006 PM $_{2.5}$ NAAQS became effective. This Air Quality Conformity analysis is being prepared to meet both the 1997 Annual PM $_{2.5}$ NAAQS and the 2006 24-hour PM $_{2.5}$ NAAQS.

This report was prepared to document the emissions analysis that was completed to evaluate Fiscal Year 2011 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

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

Regional Planning Organizations (RPO), and revised MOBILE emissions budgets.

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

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 published **Transportation Conformity Rule $PM_{2.5}$ and PM_{10} Amendments, Final Rule** March 24, 2010 (75 FR 14259-14285).

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 Motor Vehicle 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.

On October 17, 2006, EPA issued a final rule which tightened the 24-hour $PM_{2.5}$ NAAQS from the 1997 level of 65 micrograms per cubic meter (ug/m^3) to 35 ug/m^3 (71FR61144). In this final rule, DPE retained the 1997 annual $PM_{2.5}$ NAAQS of 15.0 ug/m^3. EPA's final rule designating nonattainment areas for the 2006 $PM_{2.5}$ NAAQS, published in the *Federal Register* on November 13, 2009, was effective December 14, 2009.

A MPO and the U.S. Department of Transportation (U.S.DOT) must make a conformity determination with regard to the 2006 $PM_{2.5}$ NAAQS for the metropolitan transportation plan and TIP within one year after the effective date of the initial non-attainment designation for this NAAQS, as stated in 40CFR Part 93, "Transportation Conformity Rule $PM_{2.5}$ and PM_{10} Amendments; Final Rule", dated March 24, 2010.

This report was prepared to show conformity for the 1997 Annual $PM_{2.5}$ NAAQS and the 2006 $PM_{2.5}$ 24-hour NAAQS by meeting the 1997 $PM_{2.5}$ budgets.

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 non-attainment areas under the 2006 $PM_{2.5}$ 24-hour NAAQS are the same as under the 1997 $PM_{2.5}$ non-attainments areas. Since the 1997 $PM_{2.5}$ non-attainment area has an adequate budget, EPA states that to be consistent with the Clean Air Act, the areas must meet the budget test for the 2006 $PM_{2.5}$ NAAQS using existing adequate or approved SIP budgets for the 1997 $PM_{2.5}$ NAAQS.

For areas that use the 1997 annual $PM_{2.5}$ budgets to meet 2006 $PM_{2.5}$ requirements, a regional emissions analysis for the 2006 $PM_{2.5}$ NAAQS would necessarily be done based on an analysis of annual emissions (tons per year), rather than 24-hour emissions (tons per year).[2] Therefore, where a 2006 $PM_{2.5}$ area is covered by adequate or approved 1997 $PM_{2.5}$ budgets, EPA believes that the 1997 $PM_{2.5}$ budgets must be used for 2006 $PM_{2.5}$ conformity. Connecticut has approved SIP budgets for the 1997 $PM_{2.5}$ NAAQS.

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 on the next page shows the Connecticut counties included in the non-attainment area.

[2] 75 FR 14270, dated March 24, 2010.

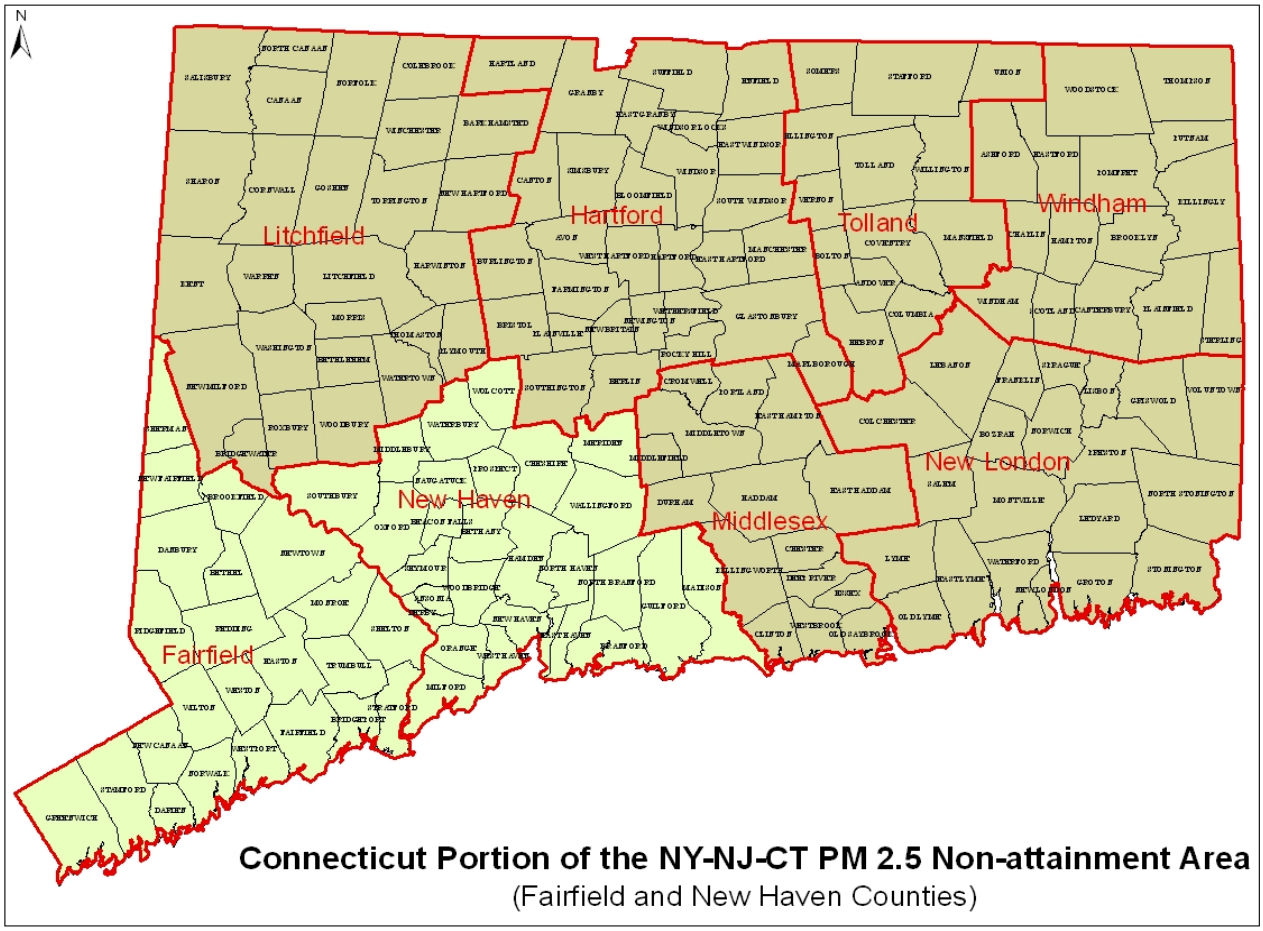

Figure 1: Connecticut Portion of the NY-NJ-CT PM $_{2.5}$ Non-attainment Area

4) INTERAGENCY CONSULTATION

An Interagency Consultation Meeting was held on Tuesday, March 8, 2011 to review the air quality codes for projects funded in the regions Long Range Transportation Plans and to discuss the planning assumptions for 2006 PM $_{2.5}$ 24-hour and 1997 PM $_{2.5}$ Annual NAAQS. The meeting also discussed the analysis years to be modeled and the revision of several emission model input files, as required by EPA during the last conformity determination.

It was agreed upon that the 2005 vehicle registration data file would be utilized for this Conformity Determination.

A copy of the minutes of the Interagency Consultation Meeting is included in Appendix A, as well as a list of attendees and call-in participants. 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 had to 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 below.

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.

Per 75 FR 14271, as the non-attainment boundary for the 2006 Connecticut portion of the NY-NJ-CT $PM_{2.5}$ Non-attainment Area is exactly the same as the 1997 $PM_{2.5}$ boundary, the budget test for the 2006 $PM_{2.5}$ NAAQS must use the existing adequate or approved SIP budgets for the 1997 $PM_{2.5}$ NAAQS.

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:

- Attainment year
- The last year of the regions' long range transportation plan
- An intermediate year or years such that the analysis years are no more than 10 years apart

The attainment year is based upon the Clean Air Act section 172(a)(2) which states that the attainment year for the 2006 $PM_{2.5}$ areas will be 2014, five years after the effective date of designations. The year 2015 is also within five years (near-term) of the year in which the analysis is being performed (2011). 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 2040. Intermediate years of 2015, 2025 and 2035 have been selected so that no two-analysis years are more than 10 years apart. Therefore, the analysis years for this conformity determination are 2015, 2025, 2035 and 2040.

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 CTDOT's statewide network-based travel model supplemented by off-model analysis. The 2010 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 2012, 2015, 2020 and 2030 and transit networks for 2012, 2013, 2015, 2020 and 2030 were built by adding STIP, TIP and LRTP projects (programmed for opening after 2010) to the 2010 network. These networks were used to run travel models and conduct emissions analysis for the years 2015, 2025, 2035 and 2040. Table 1 lists the projects for each model analysis year for which network changes were required.

TABLE 1: LIST OF NETWORK CHANGES

2012 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
GREATER BRIDGEPORT			
0301-0060 FAIRFIELD NEW RAIL STATION	Black Rock, Fairfield Main St Train Station Long Range Plan	N/A	
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
0034-0313 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 Nov 2012, TIP	3/3	4/4
SOUTH CENTRAL			
0092-0618 I-95 NEW HAVEN BRGE. REPLACEMENT	Brkout “Q” Brg Project 0092-0531, Construction NB Approach and River Piers. 9-21-2011, TIP	Varies	
0092-0619 I-95 NEW HAVEN UPGRD 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
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

2015 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
CAPITOL			
0051-0260 RT 4 FARMINGTON ADD LANE	Add EB Lane in Farmington Center. CCD 12/12/12 Long Range Plan.	1/1	2/1
0063-XXXX I84/FLATBUSH AVE. HARTFORD INTERCHANGE	Rebuild interchange from half to full. Long Range Plan. EST CCD 3-30-2014	N/A	
0171-0305 NEW BRITAIN- HARTFORD BUSWAY	From New Britain to Hartford, District 1 funding Hartford and New Britain. TIP CCD 8/14/2014	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.	0/0	2/2
0171-0305 NEW BRITAIN- HARTFORD BUSWAY	From New Britain to Hartford, District 1 funding Hartford and New Britain. Long Range Plan CCD 8-14-2014	N/A	
CENTRAL NAUGATUCK VALLEY			
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 21/1/2014	1/1	2/2
0151-XXXX BOYDEN ST WATERBURY EXTENSION	Boyden Street Extension Construct new road from Bucks Hill Rd. to North Main St. Long Range Plan		

TABLE 1: LIST OF NETWORK CHANGES (CONT'D.)

2015 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
SOUTH CENTRAL			
0092-0532 I-95 NEW HAVEN BRGE REPLACEMENT	Q Bridge Replacement and demolition; Contract B CCD 6-30-15, TIP.	3/3	5/5
0092-XXXX Route 34 NEW HAVEN BOULEVARD	Reconstruction of Route 34 to at grade Boulevard Long Range Plan	N/A	
0106-0116 METRO NORTH WEST HAVEN NEW RAIL STATION	New Rail Station in West Haven Long Range Plan Est. 12/3/12.	N/A	
SOUTH WESTERN			
0102-0278 I-95 NORWALK OPERATIONAL LANES	Add auxiliary lanes between Int. 14 and 15 (NB and SB) on I-95 CCD 12-1-2014	3/3	4/4
VALLEY			
0036-0184 ROUTE 34 DERBY MAJOR WIDENING	Main Street Derby from Bridge St to Rte 8 South Exit15 On/Off Ramps (Ansonio Dr) Long Range Plan. Nov 2014	1/1	2/2
WINDHAM			
0077-0215 HILLSIDE ROAD MANSFIELD NEW ROAD	Extension of existing Hillside Road to Route 44. Congressional earmark, Estimated 2015, TIP.	0/0	1/1

TABLE 1: LIST OF NETWORK CHANGES

2020 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
CAPITOL			
0051-0259 I84/RT4/RT6 FARMINGTON INTERCHANGE BSWY	Interchange improvements at Routes 4, 6, and 9 including a new EB C/D Roadway BID 12-31-08, CCD 2019, TIP.	N/A	
0155-0156 I-84 WEST HARTFORD OPERATIONAL LANES	Add an Operational Lane WB between Interchanges 42 & 39A; Add an Operational Lane EB between Interchanges 40 & 41 CCD 2018	3/3	4/4
GREATER BRIDGEPORT			
0015-HXXX RTE 130 BRIDGEPORT WIDENING	Reconstruct and widen Route 130 from Stratford Avenue bridge to Yellow Mill bridge Long Range Plan	1/1	2/2
SOUTH CENTRAL			
0092-0531 I-95 NEW HAVEN UPGRD 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 UPGRD 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 BRDG REPLACEMENT	Reconstruction of I-95/I91/Rte 34 Interchange Associated with Q-Bridge Replacement. 92-531Breakout of Project 0092-0531 CCD 11-30-16, TIP.	3/3	5/5

TABLE 1: LIST OF NETWORK CHANGES (CONT'D.)

2020 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
VALLEY			
0124-0165 ROUTE 67 SEYMOUR MAJOR WIDENING	**As of 2/15/2011current scope from consultant is spot improvements for from Swan Ave to Franklin St Project Manager **Bank Street from West Street to North Main St is full scope being reviewed by consultant Long Range Plan	1/1	2/2
0124-XXXX ROUTE 8 SEYMOUR INTERCHANGE	Between Interchange 22 and 23; improve access. Long Range Plan.	N/A	
0124-XXXX ROUTE 8 SEYMOUR INTERCHANGE	Realign interchange with new extension of Derby Road. Long Range Plan.	N/A	
0126-XXXX ROUTE 8 SHELTON INTERCHANGE	Interchange 11 - Construct new SB entrance ramp, Widen Bridgeport Ave. Long Range Plan.	N/A	
0126-XXXX ROUTE 714 SHELTON MAJOR WIDENING	Between Huntington Ave. and Constitution Boulevard Long Range Plan.	1/1	2/2

TABLE 1: LIST OF NETWORK CHANGES

2030 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
CAPITOL			
VARIOUS TOWNS NEW COMMUTER RAIL	New Haven/Hartford/Springfield Rail Service Governor's Transportation Initiative Long Range Plan	N/A	
CENTRAL CONNECTICUT			
0109-XXXX PLAINVILLE ADD LANE	New Britain Ave. Cooke St. to Hooker St. Long Range Plan.	1/1	2/2
VARIOUS TOWNS NEW COMMUTER RAIL	New Haven/Hartford/Springfield Rail Service Governor's Transportation Initiative Long Range Plan	N/A	
CENTRAL NAUGATUCK VALLEY			
0151-0273 I-84 WATERBURY UPGRD EXPRESSWAY	Reconstruct Expressway and Operational Improvements including Interchanges. Hamilton Ave. to opposite Pierpoint BID 02-22-06, CCD 2021, TIP.	2/2	3/3
HOUSATONIC VALLEY			
0018-0124 US 202 BROOKFIELD WIDENING	South of Old State Road to Rt. 133. Long Range Plan.	1/1	2/2
0034-0288 ROUTE 6 DANBURY ADD LANES	From Kenosia Avenue easterly to I-84 (Exit 4) 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
0034-XXXX ROUTE 6 DANBURY ADD LANES	From I-84 (Exit 2) East to Kenosia Avenue Long Range Plan	1/1	2/2

TABLE 1: LIST OF NETWORK CHANGES (CONT'D.)

2030 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
HOUSATONIC VALLEY (CONT'D.)			
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 I-84 DANBURY, NEWTOWN, SOUTHBURY	Between Interchanges 3 and 4.Between Interchanges 12 and 13 Long Range Plan	3/3	4/4
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
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
0096-XXXX NEWTOWN NEW ROAD WIDENING	New Road across Old Fairfield Hills Hospital Campus, From Route 6 South to Route 860 Long Range Plan		1/1
SOUTH CENTRAL			
0014-XXXX Rte1 BRANFORD WIDENING	East Haven TL to Alps Rd (Echlin Rd Private) Long Range Plan	2/2	2/3

TABLE 1: LIST OF NETWORK CHANGES (CONT'D.)

2030 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
SOUTH CENTRAL (CONT'D.)			
0014-XXXX Rte1 BRANFORD WIDENING	Rt 146 to Cedar St Long Range Plan	2/2	2/3
0014-XXXX Rte1 BRANFORD WIDENING	Cedar St to East Main Long Range Plan	1/1	½
0014-XXXX Rte1 BRANFORD WIDENING	East Main to 1-95 Exit 55 Long Range Plan	1/1	½
0014-XXXX Rte1 BRANFORD WIDENING	I-95 Exit 55 to Leetes Island Rd Long Range Plan	1/1	½
0059-XXXX BULLARD RD GUILFORD EXTENSION	Bullard Rd extension to Route 77 Long Range Plan		1/1
0059-XXXX RTE 1 GUILFORD WIDENING	State Street to Tanner Marsh Rd. Long Range Plan.	1/1	½
0061-XXXX RTE 10 HAMDEN WIDENING	Washington Ave to Rte 40 Long Range Plan	2/2	2/3
0061-XXXX RTE 10 HAMDEN WIDENING	Rte 40 to Todd St Long Range Plan	2/2	2/3

TABLE 1: LIST OF NETWORK CHANGES (CONT'D.)

2030 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
SOUTH CENTRAL (CONT'D.)			
0061-XXXX RTE 10 HAMDEN WIDENING	Todd St to Shepard Ave Long Range Plan	1/1	2/2
0061-XXXX RTE 10 HAMDEN WIDENING	River St to Cheshire TL Long Range Plan	1/1	2/2
0061-XXXX US 5 HAMDEN, NO.HAVEN WIDENING	Olds St (Hamden) to Sackett Point Rd. Long Range Plan.	1/1	2/2
0079-XXXX RTE 5 MERIDEN WIDENING	Wallingford TL to Olive St (Rt. 71). Long Range Plan	1/1	2/2
0083-XXXXb RTE 162 MILFORD WIDENING	From West of Old Gate Ln. to Gulf St./ Clark St. to US 1 Long Range Plan.	1/1	1/2
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	
0092-XXXX RTE 69 NEW HAVEN, WOODBRIDGE WIDENING	From Rte 63 to Landin St Long Range Plan.	1/1	2/2

TABLE 1: LIST OF NETWORK CHANGES (CONT'D.)

2030 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
SOUTH CENTRAL (CONT'D.)			
0092-XXXX RTE 63 NEW HAVEN, WOODBRIDGE WIDENING	From Dayton St (NH) to Landin St (Wdbg) Long Range Plan.	1/2	2/3
0098-XXXX RTE 80 NO. BRANFORD WIDENING	From East Haven TL to Doral Farms Rd and 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 US 5 WALLINGFORD WIDENING	From South Orchard St. to Ward St. and Christian Rd. to Meriden TL 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
0156-XXXX RTE 122 WEST HAVEN WIDENING	US 1 to Elm St 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

TABLE 1: LIST OF NETWORK CHANGES (CONT'D.)

2030 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
SOUTH CENTRAL (CONT'D.)			
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
VARIOUS TOWNS NEW COMMUTER RAIL	New Haven/Hartford/Springfield Rail Service Governor's Transportation Initiative Long Range Plan	N/A	
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
0102-0269 US 7/RT 15 NORWALK UPGRD EXPRESSWAY	Upgrade to full interchange at Merritt Parkway (Rt. 15). BID 01-09-08, CCD 2030, Long Range Plan	N/A	
0102-0297 EAST AVE #1 NORWALK WIDEN	East Avenue from the vicinity of the I-95 Ramps southerly to the vicinity of Van Zant Street Long Range Plan	1/1	2/2
0102-0312 US 7/RT 15 NORWALK UPGRD EXPRESSWAY	Reconstruction of Interchange 40 Merritt Parkway, and US 7(Main Ave.). Breakout of 0102-0269, PHASE 1 CCD 2030 Long Range Plan	N/A	

TABLE 1: LIST OF NETWORK CHANGES (CONT'D.)

2030 NETWORK CHANGES

REGION PROJECT NO. HIGHWAY NAME TOWN IMPROVEMENT	DESCRIPTION	LANES FROM	TO
SOUTH WESTERN (CONT'D.)			
0102-XXXX NORWALK, GREENWICH BRT	Express Bus/BRT between Norwalk and Greenwich Long Range Plan	N/A	
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.	N/A	
0126-XXXX ROUTE 8 SHELTON INTERCHANGE	Interchange 14 - Construct new SB entrance ramp Long Range Plan.	N/A	

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 LRTP 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 CTDOT utilizes for transportation planning, programming and design requirements. This travel demand model uses demographic and land use assumptions based on Fall 2005 State Data Center employment projections.

The model uses a constrained equilibrium approach to allocate trips among links. The model was calibrated using 2009 ground counts and 2009 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 Average Daily Traffic (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 2000 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 2005.

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 2005.

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 Daily Vehicle Miles of Travel (DVMT) 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 B and C. The **MOBILE6.2** input files are in Appendix D and the PM 2.5 output files are in Appendix E, while the NOx output files are found in Appendix F. Appendix G 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 29B:	2009 Budgets	2009	2015	2025	2035	2040
Total	360	349	243	228	234	238
Conclusion		**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

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

Series 29B:	2009 Budgets	2009	2015	2025	2035	2040
Total	18,279	17,769	8,511	4,231	3,789	3,861
Conclusion		**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

Year 2009 emissions are based upon Travel Demand Model Series 28I.

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 MEETING
Long Range Transportation Plans
Connecticut Department of Transportation
Conference Rooms A & B
March 8, 2011

Attendees:

Ken Shooshan-Stoller – FHWA
Erik Shortell - FHWA
Donald Cooke – EPA (Call in)
Paul Bodner – DEP (Call in)
Paula Gomez – DEP (Call in)
David Levasseur – OPM
Jim Larkin – NECCOG
Richard Dunne – VCOG (Call in)
Jennifer Carrier – CRCOG
Karen Olson - CRCOG
Ethan Abeles – CCRPA
Peter Dorpalen – COGCNV
Joseph Perrelli – COGCNV
Sam Gold - COGCNV
Mark Nielson – GBRPA
Megan Sloan - GBRPA
Margaret Mixon - GBRPA
Jonathan Chew – HVCEO
Stephen Dudley –SCRCOG
Sue Prosi – SWRPA
Richard Guggenheim – SECOG
Mark Paquette – WINCOG
Robert Haramut - MRPA
Thomas Maziarz – DOT
Robbin Cabelus - DOT
Maribeth Wojenski – DOT
Hugh Hayward – DOT
Eugene Colonese – DOT
Rabih Barakat – DOT
Peter Talarico – DOT
Michael Connors – DOT
Tom Borden – DOT
Paul O'Keefe – DOT
Richard Armstrong – DOT
Dean Dickinson - DOT
Jennifer Trio - DOT
Colleen Kissane- DOT
Philip Moberg – DOT
Erik Jarboe - DOT
Grayson Wright – DOT
Neil Ryan – DOT
Roxane Fromson – DOT
Tom Doyle - DOT
Facundo Dominquez - DOT
Kate Rattan - DOT
Judy Raymond - DOT
Matthew Cegielski- DOT
Justin Brunetti – DOT
Ryan Dolan - DOT

The Interagency Consultation Meeting was held in conjunction with the quarterly RPO meeting. Projects submitted as part of the regions' Long Range Transportation Plans (LRTPs) were discussed for their Air Quality Conformity coding. Don Cooke from EPA asked if several projects listed as "widening" were reviewed to determine the actual description of the project. All projects were reviewed by DOT staff for a clearer description of the project in order to determine the Air Quality Conformity coding. All "widening" projects that were determined to be non-exempt and funded were included in the highway networks for conformity analysis determination.

Don Cooke also stated that projects listed as "unfunded" should not be included in the conformity analysis. Therefore, all unfunded projects listed in the regions LRTPs will not be included in the highway / transit networks in this conformity analysis. Don also stated that the Railroad Transit Locomotive VOC Emission Credit, taken as part of the 1995 15% Reasonable Further Progress Plan, be eliminated as the credit is no longer part of the current State Implementation Plan (SIP). Thus these credits will not be taken in this Conformity Determination, nor in any future transportation conformity determination analyses in Connecticut.

The transportation conformity analysis on the LRTP projects will be completed within the next two weeks (March 25, 2011) and both the Ozone and PM 2.5 reports will be electronically distributed to the MPOs in the appropriate non-attainment areas, FTA, FHWA, DEP and EPA. The MPOs will need to hold a 30 day public comment and review period. At the end of this review period, the MPO will hold a Policy Board meeting to endorse the Air Quality Conformity determination.

There was also a brief discussion on the travel model and emissions software planning assumptions employed in the conformity analysis.

The schedule for this process LRTP Conformity Determination Analysis is as follows:

- MPOs transmit signed and dated Concurrence Form to judy.raymond@ct.gov by March 10, 2011.
- CTDOT Census/Modeling Unit performs the air quality analysis and sends the Air
- Quality Conformity Determination Reports electronically to all MPOs by March 25, 2011.
- MPOs advertise and hold a 30-day public review and comment period for the Air Quality Conformity
- MPOs hold a Policy Board meeting approving and endorsing the Air Quality Conformity
- MPOs transmit resolution endorsing the Air Quality Conformity to judy.raymond@ct.gov no later than May 13, 2011

It is important that all MPOs follow this schedule to ensure that the LRTP Conformity Determinations can go forward on schedule. EPA must approve the LRTP Conformity Determination by June 29, 2011 to avoid a conformity lapse.

PLANNING ASSUMPTIONS

Ozone and PM2.5

Regions' Long Range Transportation Plans

March 8, 2011

Planning Assumptions for Review	Frequency of Review*	Responsible Agency	Year of Data
Socioeconomic Data	At least every 5 years	CTDOT	2005 data available in 2007
DMV Vehicle Registration Data	At least every 5 years	CTDEP	2005 data available in 2007
State Vehicle Inspection and Maintenance Program	Each conformity round	CTDEP	2005 Plus
State Low Emission Vehicle Program	Each conformity round following approval into the SIP	CTDEP	Same as SIP
VMT Mix Data	At least every 5 years	CTDEP	2008
Analysis Years	Each conformity round	CTDOT/CTDEP	2015, 2025, 2035, 2040
Emission Budget	As SIP revised/updated	CTDEP	2009
Temperatures and Humidity	As SIP revised/updated	CTDEP	X
Control Strategies	Each conformity round	CTDEP	X
HPMS VMT	Each conformity round	CTDOT	2009

***** Review of Planning Assumptions does not necessarily prelude an update or calibration of the travel demand model.

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	15.3	922746304.
Arterial/Collector	13.4	969573056.
Local	2.5	180725920.
Ramp	0.6	36231908.
Totals	31.8	2109277184.

GREATER BRIDGEPORT	PM 2.5 (tons per year)	Average Annual VMT
Expressway	18.6	1122048640.
Arterial/Collector	12.4	897017984.
Local	2.5	176738288.
Ramp	0.9	54348684.
Totals	34.4	2250153728.

HOUSATONIC VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	9.9	595633984.
Arterial/Collector	12.9	933561600.
Local	3.0	212280352.
Ramp	0.5	30554698.
Totals	26.3	1772030592.

SOUTH CENTRAL	PM 2.5 (tons per year)	Average Annual VMT
Expressway	46.4	2796934656.
Arterial/Collector	30.2	2183656704.
Local	5.0	355056320.
Ramp	1.5	93419928.
Totals	83.1	5429067264.

SOUTHWESTERN	PM 2.5 (tons per year)	Average Annual VMT
Expressway	31.7	1911785344.
Arterial/Collector	20.5	1485422592.
Local	4.1	295090816.
Ramp	0.8	46040004.
Totals	57.1	3738339072.

VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	3.9	236698848.
Arterial/Collector	5.0	361457856.
Local	0.9	62330320.
Ramp	0.1	6811630.
Totals	9.9	667298688.

AREA TOTALS	PM 2.5 (tons per year)	Average Annual VMT
Expressway	125.8	7585847808.
Arterial/Collector	94.5	6830690304.
Local	17.9	1282222080.
Ramp	4.4	267406848.
Totals	242.6	15966167040.

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	13.6	986632064.
Arterial/Collector	13.5	1043300288.
Local	2.5	193547456.
Ramp	0.5	38582324.
Totals	30.1	2262062080.

GREATER BRIDGEPORT	PM 2.5 (tons per year)	Average Annual VMT
Expressway	16.5	1196674432.
Arterial/Collector	12.4	958015296.
Local	2.5	189394112.
Ramp	0.8	58686344.
Totals	32.1	2402770432.

HOUSATONIC VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	8.8	635866304.
Arterial/Collector	13.0	1007076416.
Local	3.0	230830752.
Ramp	0.4	32604902.
Totals	25.2	1906378368.

SOUTH CENTRAL	PM 2.5 (tons per year)	Average Annual VMT
Expressway	41.3	2999224064.
Arterial/Collector	30.7	2379074048.
Local	5.0	386131136.
Ramp	1.4	100539616.
Totals	78.4	5864968192.

SOUTHWESTERN	PM 2.5 (tons per year)	Average Annual VMT
Expressway	27.5	1999404800.
Arterial/Collector	20.4	1584901376.
Local	4.1	315110720.
Ramp	0.7	48053892.
Totals	52.8	3947470848.

VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	3.3	242985248.
Arterial/Collector	5.0	391152992.
Local	0.9	66793904.
Ramp	0.1	7075890.
Totals	9.4	708008064.

AREA TOTALS	PM 2.5 (tons per year)	Average Annual VMT
Expressway	111.1	8060786688.
Arterial/Collector	95.0	7363520512.
Local	18.0	1381808128.
Ramp	3.9	285542976.
Totals	227.9	17091658752.

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	14.6	1091615488.
Arterial/Collector	14.3	1117839360.
Local	2.7	207254672.
Ramp	0.6	42719600.
Totals	32.1	2459429120.

GREATER BRIDGEPORT	PM 2.5 (tons per year)	Average Annual VMT
Expressway	16.6	1241220864.
Arterial/Collector	13.0	1013412480.
Local	2.6	201465760.
Ramp	0.8	61219992.
Totals	32.9	2517319168.

HOUSATONIC VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	9.1	684607168.
Arterial/Collector	13.6	1062282880.
Local	3.2	248846592.
Ramp	0.5	35161728.
Totals	26.4	2030898304.

SOUTH CENTRAL	PM 2.5 (tons per year)	Average Annual VMT
Expressway	41.9	3144461824.
Arterial/Collector	32.8	2565664000.
Local	5.3	416011680.
Ramp	1.4	105701992.
Totals	81.5	6231839744.

SOUTHWESTERN	PM 2.5 (tons per year)	Average Annual VMT
Expressway	26.3	1971265024.
Arterial/Collector	20.0	1564732928.
Local	4.2	330214400.
Ramp	0.6	47880700.
Totals	51.2	3914093056.

VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	3.5	264214192.
Arterial/Collector	5.3	413744640.
Local	0.9	71070424.
Ramp	0.1	7665912.
Totals	9.8	756695168.

AREA TOTALS	PM 2.5 (tons per year)	Average Annual VMT
Expressway	112.0	8397384704.
Arterial/Collector	98.9	7737675776.
Local	18.9	1474863488.
Ramp	4.0	300349920.
Totals	233.8	17910274048.

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	15.3	1144467712.
Arterial/Collector	14.9	1162607872.
Local	2.7	214258832.
Ramp	0.6	44593512.
Totals	33.5	2565927936.

GREATER BRIDGEPORT	PM 2.5 (tons per year)	Average Annual VMT
Expressway	16.8	1258685696.
Arterial/Collector	13.3	1038970688.
Local	2.6	207152096.
Ramp	0.8	62419744.
Totals	33.6	2567228160.

HOUSATONIC VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	9.5	713105408.
Arterial/Collector	13.9	1085661824.
Local	3.3	257312592.
Ramp	0.5	36651112.
Totals	27.2	2092731008.

SOUTH CENTRAL	PM 2.5 (tons per year)	Average Annual VMT
Expressway	42.9	3216267520.
Arterial/Collector	34.0	2658487808.
Local	5.5	430797632.
Ramp	1.4	108143664.
Totals	83.8	6413696512.

SOUTHWESTERN	PM 2.5 (tons per year)	Average Annual VMT
Expressway	25.1	1884940800.
Arterial/Collector	19.7	1543497984.
Local	4.3	335211808.
Ramp	0.6	45975216.
Totals	49.8	3809625856.

VALLEY	PM 2.5 (tons per year)	Average Annual VMT
Expressway	3.6	272213344.
Arterial/Collector	5.5	426785184.
Local	0.9	73129760.
Ramp	0.1	7900790.
Totals	10.1	780029056.

AREA TOTALS	PM 2.5 (tons per year)	Average Annual VMT
Expressway	113.2	8489679872.
Arterial/Collector	101.2	7916011520.
Local	19.4	1517862656.
Ramp	4.1	305684032.
Totals	237.9	18229239808.

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	618.3	922746304.
Arterial/Collector	400.4	969573056.
Local	72.3	180725920.
Ramp	19.5	36231908.
Totals	1110.4	2109277184.

GREATER BRIDGEPORT	NOX (tons per year)	Average Annual VMT
Expressway	734.6	1122048640.
Arterial/Collector	372.4	897017984.
Local	70.8	176738288.
Ramp	29.2	54348684.
Totals	1207.0	2250153728.

HOUSATONIC VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	389.9	595633984.
Arterial/Collector	387.5	933561600.
Local	85.0	212280352.
Ramp	16.4	30554698.
Totals	878.8	1772030592.

SOUTH CENTRAL	NOX (tons per year)	Average Annual VMT
Expressway	1874.2	2796934656.
Arterial/Collector	901.9	2183656704.
Local	142.1	355056320.
Ramp	50.2	93419928.
Totals	2968.4	5429067264.

SOUTHWESTERN	NOX (tons per year)	Average Annual VMT
Expressway	1251.6	1911785344.
Arterial/Collector	616.8	1485422592.
Local	118.1	295090816.
Ramp	24.7	46040004.
Totals	2011.2	3738339072.

VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	157.0	236698848.
Arterial/Collector	149.7	361457856.
Local	25.0	62330320.
Ramp	3.7	6811630.
Totals	335.3	667298688.

AREA TOTALS	NOX (tons per year)	Average Annual VMT
Expressway	5025.7	7585847808.
Arterial/Collector	2828.5	6830690304.
Local	513.3	1282222080.
Ramp	143.7	267406848.
Totals	8511.1	15966167040.

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	275.4	986632064.
Arterial/Collector	232.0	1043300288.
Local	40.5	193547456.
Ramp	10.0	38582324.
Totals	557.8	2262062080.

GREATER BRIDGEPORT	NOX (tons per year)	Average Annual VMT
Expressway	326.7	1196674432.
Arterial/Collector	214.1	958015296.
Local	39.6	189394112.
Ramp	15.3	58686344.
Totals	595.7	2402770432.

HOUSATONIC VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	173.6	635866304.
Arterial/Collector	225.0	1007076416.
Local	48.3	230830752.
Ramp	8.5	32604902.
Totals	455.3	1906378368.

SOUTH CENTRAL	NOX (tons per year)	Average Annual VMT
Expressway	837.1	2999224064.
Arterial/Collector	529.0	2379074048.
Local	80.8	386131136.
Ramp	26.1	100539616.
Totals	1473.1	5864968192.

SOUTHWESTERN	NOX (tons per year)	Average Annual VMT
Expressway	545.9	1999404800.
Arterial/Collector	354.2	1584901376.
Local	65.9	315110720.
Ramp	12.5	48053892.
Totals	978.4	3947470848.

VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	67.2	242985248.
Arterial/Collector	87.2	391152992.
Local	14.0	66793904.
Ramp	1.8	7075890.
Totals	170.2	708008064.

AREA TOTALS	NOX (tons per year)	Average Annual VMT
Expressway	2225.9	8060786688.
Arterial/Collector	1641.4	7363520512.
Local	289.0	1381808128.
Ramp	74.2	285542976.
Totals	4230.5	17091658752.

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	244.7	1091615488.
Arterial/Collector	226.4	1117839360.
Local	39.1	207254672.
Ramp	9.5	42719600.
Totals	519.8	2459429120.

GREATER BRIDGEPORT	NOX (tons per year)	Average Annual VMT
Expressway	274.8	1241220864.
Arterial/Collector	206.4	1013412480.
Local	38.0	201465760.
Ramp	13.6	61219992.
Totals	532.9	2517319168.

HOUSATONIC VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	151.6	684607168.
Arterial/Collector	216.3	1062282880.
Local	47.0	248846592.
Ramp	7.8	35161728.
Totals	422.7	2030898304.

SOUTH CENTRAL	NOX (tons per year)	Average Annual VMT
Expressway	705.1	3144461824.
Arterial/Collector	519.7	2565664000.
Local	78.5	416011680.
Ramp	23.5	105701992.
Totals	1326.8	6231839744.

SOUTHWESTERN	NOX (tons per year)	Average Annual VMT
Expressway	436.5	1971265024.
Arterial/Collector	318.7	1564732928.
Local	62.3	330214400.
Ramp	10.7	47880700.
Totals	828.2	3914093056.

VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	58.9	264214192.
Arterial/Collector	84.0	413744640.
Local	13.4	71070424.
Ramp	1.7	7665912.
Totals	158.1	756695168.

AREA TOTALS	NOX (tons per year)	Average Annual VMT
Expressway	1871.6	8397384704.
Arterial/Collector	1571.5	7737675776.
Local	278.5	1474863488.
Ramp	66.9	300349920.
Totals	3788.5	17910274048.

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	255.9	1144467712.
Arterial/Collector	236.8	1162607872.
Local	40.5	214258832.
Ramp	9.9	44593512.
Totals	543.1	2565927936.

GREATER BRIDGEPORT	NOX (tons per year)	Average Annual VMT
Expressway	280.1	1258685696.
Arterial/Collector	211.6	1038970688.
Local	39.1	207152096.
Ramp	13.9	62419744.
Totals	544.7	2567228160.

HOUSATONIC VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	158.7	713105408.
Arterial/Collector	221.1	1085661824.
Local	48.6	257312592.
Ramp	8.2	36651112.
Totals	436.5	2092731008.

SOUTH CENTRAL	NOX (tons per year)	Average Annual VMT
Expressway	719.3	3216267520.
Arterial/Collector	541.5	2658487808.
Local	81.3	430797632.
Ramp	24.1	108143664.
Totals	1366.1	6413696512.

SOUTHWESTERN	NOX (tons per year)	Average Annual VMT
Expressway	419.5	1884940800.
Arterial/Collector	314.4	1543497984.
Local	63.3	335211808.
Ramp	10.2	45975216.
Totals	807.3	3809625856.

VALLEY	NOX (tons per year)	Average Annual VMT
Expressway	60.7	272213344.
Arterial/Collector	86.9	426785184.
Local	13.8	73129760.
Ramp	1.8	7900790.
Totals	163.2	780029056.

AREA TOTALS	NOX (tons per year)	Average Annual VMT
Expressway	1894.2	8489679872.
Arterial/Collector	1612.2	7916011520.
Local	286.6	1517862656.
Ramp	68.0	305684032.
Totals	3861.0	18229239808.

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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2015\15Svmt1s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2015 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3226  0.1020  0.3396  0.1046  0.0481  0.0262  0.0026  0.0021
0.0016  0.0059  0.0070  0.0075  0.0268  0.0013  0.0007  0.0014


SCENARIO RECORD    : Fairfield County Summer 2015 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2015\15Svmt1s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2015 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3397  0.1074  0.3575  0.1101  0.0507  0.0084  0.0008  0.0007
0.0005  0.0019  0.0022  0.0024  0.0086  0.0004  0.0002  0.0085
```

```
SCENARIO RECORD    : Fairfield County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

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

* 2015 local VMT fractions
VMT FRACTIONS      :
0.3389  0.1071  0.3567  0.1099  0.0505  0.0088  0.0009  0.0007
0.0005  0.0020  0.0023  0.0025  0.0090  0.0004  0.0002  0.0096

SCENARIO RECORD    : Fairfield County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

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

* 2015 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3226  0.1020  0.3396  0.1046  0.0481  0.0262  0.0026  0.0021
0.0016  0.0059  0.0070  0.0075  0.0268  0.0013  0.0007  0.0014

SCENARIO RECORD    : Fairfield County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2015\15Svmt5s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2015 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3226  0.1020  0.3396  0.1046  0.0481  0.0262  0.0026  0.0021
0.0016  0.0059  0.0070  0.0075  0.0268  0.0013  0.0007  0.0014

SCENARIO RECORD    : New Haven County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2015\15Svmt5s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2015 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3397  0.1074  0.3575  0.1101  0.0507  0.0084  0.0008  0.0007
0.0005  0.0019  0.0022  0.0024  0.0086  0.0004  0.0002  0.0085

SCENARIO RECORD    : New Haven County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

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

* 2015 local VMT fractions
VMT FRACTIONS      :
0.3389  0.1071  0.3567  0.1099  0.0505  0.0088  0.0009  0.0007
0.0005  0.0020  0.0023  0.0025  0.0090  0.0004  0.0002  0.0096

SCENARIO RECORD    : New Haven County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

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

* 2015 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3226  0.1020  0.3396  0.1046  0.0481  0.0262  0.0026  0.0021
0.0016  0.0059  0.0070  0.0075  0.0268  0.0013  0.0007  0.0014

SCENARIO RECORD    : New Haven County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2015\15Svmt1W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2015 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3226  0.1020  0.3396  0.1046  0.0481  0.0262  0.0026  0.0021
0.0016  0.0059  0.0070  0.0075  0.0268  0.0013  0.0007  0.0014

SCENARIO RECORD    : Fairfield County Winter 2015 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2015\15Svmt1W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2015 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3397  0.1074  0.3575  0.1101  0.0507  0.0084  0.0008  0.0007
0.0005  0.0019  0.0022  0.0024  0.0086  0.0004  0.0002  0.0085

SCENARIO RECORD    : Fairfield County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

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

* 2015 local VMT fractions
VMT FRACTIONS      :
0.3389  0.1071  0.3567  0.1099  0.0505  0.0088  0.0009  0.0007
0.0005  0.0020  0.0023  0.0025  0.0090  0.0004  0.0002  0.0096

SCENARIO RECORD    : Fairfield County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

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

* 2015 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3226  0.1020  0.3396  0.1046  0.0481  0.0262  0.0026  0.0021
0.0016  0.0059  0.0070  0.0075  0.0268  0.0013  0.0007  0.0014

SCENARIO RECORD    : Fairfield County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2015\15Svmt5W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2015 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3226  0.1020  0.3396  0.1046  0.0481  0.0262  0.0026  0.0021
0.0016  0.0059  0.0070  0.0075  0.0268  0.0013  0.0007  0.0014

SCENARIO RECORD    : New Haven County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2015\15Svmt5W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2015 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3397  0.1074  0.3575  0.1101  0.0507  0.0084  0.0008  0.0007
0.0005  0.0019  0.0022  0.0024  0.0086  0.0004  0.0002  0.0085

SCENARIO RECORD    : New Haven County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

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

* 2015 local VMT fractions
VMT FRACTIONS      :
0.3389  0.1071  0.3567  0.1099  0.0505  0.0088  0.0009  0.0007
0.0005  0.0020  0.0023  0.0025  0.0090  0.0004  0.0002  0.0096

SCENARIO RECORD    : New Haven County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

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

* 2015 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.3226  0.1020  0.3396  0.1046  0.0481  0.0262  0.0026  0.0021
0.0016  0.0059  0.0070  0.0075  0.0268  0.0013  0.0007  0.0014

SCENARIO RECORD    : New Haven County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2015
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2025\25svmt1s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2025 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2936 0.1070 0.3560 0.1097 0.0505 0.0262 0.0026 0.0022
0.0017 0.0059 0.0069 0.0075 0.0268 0.0013 0.0007 0.0014

SCENARIO RECORD    : Fairfield County Summer 2025 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2025\25svmt1s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2025 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094 0.1126 0.3747 0.1155 0.0532 0.0084 0.0008 0.0007
0.0005 0.0019 0.0022 0.0024 0.0086 0.0004 0.0002 0.0085

SCENARIO RECORD    : Fairfield County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

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

* 2025 local VMT fractions
VMT FRACTIONS      :
0.3087 0.1123 0.3738 0.1152 0.0530 0.0088 0.0009 0.0007
0.0006 0.0020 0.0023 0.0025 0.0090 0.0004 0.0002 0.0096

SCENARIO RECORD    : Fairfield County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

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

* 2025 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2936 0.1070 0.3560 0.1097 0.0505 0.0262 0.0026 0.0022
0.0017 0.0059 0.0069 0.0075 0.0268 0.0013 0.0007 0.0014

SCENARIO RECORD    : Fairfield County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2025\25svmt5s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2025 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2936 0.1070 0.3560 0.1097 0.0505 0.0262 0.0026 0.0022
0.0017 0.0059 0.0069 0.0075 0.0268 0.0013 0.0007 0.0014

SCENARIO RECORD    : New Haven County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2025\25svmt5s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2025 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094 0.1126 0.3747 0.1155 0.0532 0.0084 0.0008 0.0007
0.0005 0.0019 0.0022 0.0024 0.0086 0.0004 0.0002 0.0085

SCENARIO RECORD    : New Haven County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

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

* 2025 local VMT fractions
VMT FRACTIONS      :
0.3087 0.1123 0.3738 0.1152 0.0530 0.0088 0.0009 0.0007
0.0006 0.0020 0.0023 0.0025 0.0090 0.0004 0.0002 0.0096

SCENARIO RECORD    : New Haven County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

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

* 2025 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2936 0.1070 0.3560 0.1097 0.0505 0.0262 0.0026 0.0022
0.0017 0.0059 0.0069 0.0075 0.0268 0.0013 0.0007 0.0014

SCENARIO RECORD    : New Haven County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2025\25svmt1W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2025 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2936 0.1070 0.3560 0.1097 0.0505 0.0262 0.0026 0.0022
0.0017 0.0059 0.0069 0.0075 0.0268 0.0013 0.0007 0.0014

SCENARIO RECORD    : Fairfield County Winter 2025 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2025\25svmt1W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2025 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094 0.1126 0.3747 0.1155 0.0532 0.0084 0.0008 0.0007
0.0005 0.0019 0.0022 0.0024 0.0086 0.0004 0.0002 0.0085

SCENARIO RECORD    : Fairfield County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

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

* 2025 local VMT fractions
VMT FRACTIONS      :
0.3087 0.1123 0.3738 0.1152 0.0530 0.0088 0.0009 0.0007
0.0006 0.0020 0.0023 0.0025 0.0090 0.0004 0.0002 0.0096

SCENARIO RECORD    : Fairfield County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

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

* 2025 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2936 0.1070 0.3560 0.1097 0.0505 0.0262 0.0026 0.0022
0.0017 0.0059 0.0069 0.0075 0.0268 0.0013 0.0007 0.0014

SCENARIO RECORD    : Fairfield County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2025\25svmt5W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2025 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2936 0.1070 0.3560 0.1097 0.0505 0.0262 0.0026 0.0022
0.0017 0.0059 0.0069 0.0075 0.0268 0.0013 0.0007 0.0014

SCENARIO RECORD    : New Haven County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2025\25svmt5W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2025 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094 0.1126 0.3747 0.1155 0.0532 0.0084 0.0008 0.0007
0.0005 0.0019 0.0022 0.0024 0.0086 0.0004 0.0002 0.0085

SCENARIO RECORD    : New Haven County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

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

* 2025 local VMT fractions
VMT FRACTIONS      :
0.3087 0.1123 0.3738 0.1152 0.0530 0.0088 0.0009 0.0007
0.0006 0.0020 0.0023 0.0025 0.0090 0.0004 0.0002 0.0096

SCENARIO RECORD    : New Haven County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

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

* 2025 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2936 0.1070 0.3560 0.1097 0.0505 0.0262 0.0026 0.0022
0.0017 0.0059 0.0069 0.0075 0.0268 0.0013 0.0007 0.0014

SCENARIO RECORD    : New Haven County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2025
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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2035\35svmt1s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2938 0.1070 0.3561 0.1097 0.0505 0.0261 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0014

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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2035\35svmt1s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2035 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094 0.1126 0.3747 0.1155 0.0532 0.0084 0.0008 0.0007
0.0005 0.0019 0.0022 0.0024 0.0086 0.0004 0.0002 0.0085

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           : CTREG05.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. 12111112

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

* 2035 local VMT fractions
VMT FRACTIONS      :
0.3087 0.1123 0.3738 0.1152 0.0530 0.0088 0.0009 0.0007
0.0006 0.0020 0.0023 0.0025 0.0090 0.0004 0.0002 0.0096

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           : CTREG05.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. 12111112

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

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2938 0.1070 0.3561 0.1097 0.0505 0.0261 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0014

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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2035\35svmt5s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2938 0.1070 0.3561 0.1097 0.0505 0.0261 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0014

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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2035\35svmt5s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2035 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094 0.1126 0.3747 0.1155 0.0532 0.0084 0.0008 0.0007
0.0005 0.0019 0.0022 0.0024 0.0086 0.0004 0.0002 0.0085

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           : CTREG05.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. 12111112

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

* 2035 local VMT fractions
VMT FRACTIONS      :
0.3087 0.1123 0.3738 0.1152 0.0530 0.0088 0.0009 0.0007
0.0006 0.0020 0.0023 0.0025 0.0090 0.0004 0.0002 0.0096

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           : CTREG05.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. 12111112

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

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2938 0.1070 0.3561 0.1097 0.0505 0.0261 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0014

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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2035\35svmt1W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2938 0.1070 0.3561 0.1097 0.0505 0.0261 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0014

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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2035\35svmt1W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2035 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094 0.1126 0.3747 0.1155 0.0532 0.0084 0.0008 0.0007
0.0005 0.0019 0.0022 0.0024 0.0086 0.0004 0.0002 0.0085

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           : CTREG05.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. 12111112

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

* 2035 local VMT fractions
VMT FRACTIONS      :
0.3087 0.1123 0.3738 0.1152 0.0530 0.0088 0.0009 0.0007
0.0006 0.0020 0.0023 0.0025 0.0090 0.0004 0.0002 0.0096

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           : CTREG05.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. 12111112

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

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2938 0.1070 0.3561 0.1097 0.0505 0.0261 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0014

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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2035\35svmt5W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2938 0.1070 0.3561 0.1097 0.0505 0.0261 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0014

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           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2035\35svmt5W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2035 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094 0.1126 0.3747 0.1155 0.0532 0.0084 0.0008 0.0007
0.0005 0.0019 0.0022 0.0024 0.0086 0.0004 0.0002 0.0085

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           : CTREG05.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. 12111112

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

* 2035 local VMT fractions
VMT FRACTIONS      :
0.3087 0.1123 0.3738 0.1152 0.0530 0.0088 0.0009 0.0007
0.0006 0.0020 0.0023 0.0025 0.0090 0.0004 0.0002 0.0096

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           : CTREG05.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. 12111112

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

* 2035 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2938 0.1070 0.3561 0.1097 0.0505 0.0261 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0014

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
```

```
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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2040 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG05.D

EXPRESS HC AS VOC  :

* I/M Data; 2040 program same as in 2002 for periodic inventory
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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt1s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2040 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2940  0.1070  0.3561  0.1098  0.0505  0.0260  0.0026  0.0022
0.0016  0.0058  0.0069  0.0075  0.0266  0.0013  0.0007  0.0014

SCENARIO RECORD    : Fairfield County Summer 2040 O3 SEASON w/ASM I/M W/gascap, ATP, RFG1
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 7
* Fuel RVP value is from M6 User's Guide for northern reformulated gas areas ("2 N").
* Note that the model ignores the user input in favor of the EPA default value, but DEP
* has included it in the input file for documentation purposes.
FUEL RVP           : 6.8
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt1s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2040 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094  0.1126  0.3747  0.1155  0.0532  0.0084  0.0008  0.0007
0.0005  0.0019  0.0022  0.0024  0.0086  0.0004  0.0002  0.0085

SCENARIO RECORD    : Fairfield County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 7
FUEL RVP           : 6.8
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt1s.cty
VMT BY FACILITY    : FCVMTL.CTY

* 2040 local VMT fractions
VMT FRACTIONS      :
0.3087  0.1123  0.3738  0.1152  0.0530  0.0088  0.0009  0.0007
0.0006  0.0020  0.0023  0.0025  0.0090  0.0004  0.0002  0.0096

SCENARIO RECORD    : Fairfield County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 7
FUEL RVP           : 6.8
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt1s.cty
VMT BY FACILITY    : FCVMTR.CTY

* 2040 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2940  0.1070  0.3561  0.1098  0.0505  0.0260  0.0026  0.0022
0.0016  0.0058  0.0069  0.0075  0.0266  0.0013  0.0007  0.0014

SCENARIO RECORD    : Fairfield County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 7
FUEL RVP           : 6.8
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt5s.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2040 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2940  0.1070  0.3561  0.1098  0.0505  0.0260  0.0026  0.0022
0.0016  0.0058  0.0069  0.0075  0.0266  0.0013  0.0007  0.0014

SCENARIO RECORD    : New Haven County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 7
FUEL RVP           : 6.8
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt5s.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2040 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094  0.1126  0.3747  0.1155  0.0532  0.0084  0.0008  0.0007
0.0005  0.0019  0.0022  0.0024  0.0086  0.0004  0.0002  0.0085

SCENARIO RECORD    : New Haven County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 7
FUEL RVP           : 6.8
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for GRCT 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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt5s.cty
VMT BY FACILITY    : FCVMTL.CTY

* 2040 local VMT fractions
VMT FRACTIONS      :
0.3087  0.1123  0.3738  0.1152  0.0530  0.0088  0.0009  0.0007
```

```
0.0006  0.0020  0.0023  0.0025  0.0090  0.0004  0.0002  0.0096

SCENARIO RECORD    : New Haven County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 7
FUEL RVP           : 6.8
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for GRCT SUMMER 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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt5s.cty
VMT BY FACILITY    : FCVMTR.CTY

* 2040 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2940  0.1070  0.3561  0.1098  0.0505  0.0260  0.0026  0.0022
0.0016  0.0058  0.0069  0.0075  0.0266  0.0013  0.0007  0.0014

SCENARIO RECORD    : New Haven County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 7
FUEL RVP           : 6.8
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for GRCT SUMMER 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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

* 2040 registration age distribution data.  DEP updates this data with each
* periodic inventory (PI).
REG DIST           : CTREG05.D

EXPRESS HC AS VOC  :

* I/M Data; 2040 program same as in 2002 for periodic inventory
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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt1W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2040 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2940  0.1070  0.3561  0.1098  0.0505  0.0260  0.0026  0.0022
0.0016  0.0058  0.0069  0.0075  0.0266  0.0013  0.0007  0.0014

SCENARIO RECORD    : Fairfield County Winter 2040 O3 SEASON w/ASM I/M W/gascap, ATP, RFG1
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 1
* Fuel RVP value is from M6 User's Guide for northern reformulated gas areas ("2 N").
* Note that the model ignores the user input in favor of the EPA default value, but DEP
* has included it in the input file for documentation purposes.
FUEL RVP           : 13.0
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
```

```
* Weather Data for SWCT WINTER 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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt1W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2040 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094  0.1126  0.3747  0.1155  0.0532  0.0084  0.0008  0.0007
0.0005  0.0019  0.0022  0.0024  0.0086  0.0004  0.0002  0.0085

SCENARIO RECORD    : Fairfield County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 1
FUEL RVP           : 13.0
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT WINTER 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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt1W.cty
VMT BY FACILITY    : FCVMTL.CTY

* 2040 local VMT fractions
VMT FRACTIONS      :
0.3087  0.1123  0.3738  0.1152  0.0530  0.0088  0.0009  0.0007
0.0006  0.0020  0.0023  0.0025  0.0090  0.0004  0.0002  0.0096

SCENARIO RECORD    : Fairfield County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 1
FUEL RVP           : 13.0
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA WINTER 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       : 2 N
NO REFUELING       :
```

```
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt1W.cty
VMT BY FACILITY    : FCVMTR.CTY

* 2040 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2940  0.1070  0.3561  0.1098  0.0505  0.0260  0.0026  0.0022
0.0016  0.0058  0.0069  0.0075  0.0266  0.0013  0.0007  0.0014

SCENARIO RECORD    : Fairfield County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 1
FUEL RVP           : 13.0
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA WINTER 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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt5W.cty
VMT BY FACILITY    : FCVMTF.CTY

* 2040 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2940  0.1070  0.3561  0.1098  0.0505  0.0260  0.0026  0.0022
0.0016  0.0058  0.0069  0.0075  0.0266  0.0013  0.0007  0.0014

SCENARIO RECORD    : New Haven County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 1
FUEL RVP           : 13.0
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA WINTER 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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
```

```
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt5W.cty
VMT BY FACILITY    : FCVMTA.CTY

* 2040 arterial/collector VMT fractions
VMT FRACTIONS      :
0.3094  0.1126  0.3747  0.1155  0.0532  0.0084  0.0008  0.0007
0.0005  0.0019  0.0022  0.0024  0.0086  0.0004  0.0002  0.0085

SCENARIO RECORD    : New Haven County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 1
FUEL RVP           : 13.0
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA WINTER 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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt5W.cty
VMT BY FACILITY    : FCVMTL.CTY

* 2040 local VMT fractions
VMT FRACTIONS      :
0.3087  0.1123  0.3738  0.1152  0.0530  0.0088  0.0009  0.0007
0.0006  0.0020  0.0023  0.0025  0.0090  0.0004  0.0002  0.0096

SCENARIO RECORD    : New Haven County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 1
FUEL RVP           : 13.0
PARTICLE SIZE      : 2.5
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA WINTER 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       : 2 N
NO REFUELING       :
REBUILD EFFECTS    : 0.07

REG DIST           : CTREG05.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. 12111112

* VMT Data
VMT BY HOUR        : CTHVMT.def
SPEED VMT          : z:\SER29B\2040\40svmt5W.cty
VMT BY FACILITY    : FCVMTR.CTY

* 2040 expressway/ramp VMT fractions
VMT FRACTIONS      :
0.2940  0.1070  0.3561  0.1098  0.0505  0.0260  0.0026  0.0022
0.0016  0.0058  0.0069  0.0075  0.0266  0.0013  0.0007  0.0014

SCENARIO RECORD    : New Haven County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
CALENDAR YEAR      : 2040
EVALUATION MONTH   : 1
FUEL RVP           : 13.0
PARTICLE SIZE      : 2.5
```

```
DIESEL SULFUR      : 11.0
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

* Weather Data for SWCT NA WINTER area
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: 15PMFNH2.IN (file 1, run 1).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2015 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   15. ppm
                        Particle Size Cutoff:  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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    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    0.0174    ------    ------    ------    0.0142    0.0037
            ECARBON:    ------    ------    ------    ------    ------    0.0173    0.0065    0.0357    ------    0.0021
            OCARBON:    ------    ------    ------    ------    ------    0.0049    0.0094    0.0180    ------    0.0011
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0019    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0193    0.0224    0.0161    0.0547    0.0143    0.0073
              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    0.0113    0.0113    0.0113    0.0268    0.0297    0.0235    0.0665    0.0206    0.0149
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0090
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 15PMFNH2.IN (file 1, run 2).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                      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:    0.3394    0.4649    0.1584              0.0077    0.0003    0.0024    0.0184    0.0085    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    0.0176    ------    ------    ------    0.0142    0.0036
            ECARBON:    ------    ------    ------    ------    ------    0.0173    0.0065    0.0358    ------    0.0007
            OCARBON:    ------    ------    ------    ------    ------    0.0049    0.0094    0.0180    ------    0.0004
                SO4:    0.0003    0.0005    0.0005    0.0005    0.0017    0.0002    0.0003    0.0009    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0040    0.0039    0.0193    0.0224    0.0161    0.0547    0.0143    0.0051
              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    0.0113    0.0113    0.0113    0.0268    0.0297    0.0235    0.0665    0.0206    0.0125
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0165    0.0029    0.0056    0.0132    0.0033    0.0086
                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: 15PMFNH2.IN (file 1, run 3).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                      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:    0.3386    0.4638    0.1580              0.0080    0.0003    0.0024    0.0193    0.0096    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
              GASPM:    0.0035    0.0034    0.0034    0.0034    0.0179    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0173    0.0065    0.0358    ------    0.0007
            OCARBON:    ------    ------    ------    ------    ------    0.0049    0.0094    0.0180    ------    0.0004
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0002    0.0003    0.0009    0.0002    0.0006
   Total Exhaust PM:    0.0040    0.0040    0.0040    0.0040    0.0192    0.0224    0.0161    0.0547    0.0144    0.0052
```

```
             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    0.0113    0.0113    0.0113    0.0267    0.0297    0.0235    0.0665    0.0207    0.0126
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0132    0.0033    0.0086
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 15PMFNH2.IN (file 1, run 4).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                       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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    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    0.0174    ------    ------    ------    0.0142    0.0037
            ECARBON:    ------    ------    ------    ------    ------    0.0173    0.0065    0.0357    ------    0.0021
            OCARBON:    ------    ------    ------    ------    ------    0.0049    0.0094    0.0180    ------    0.0011
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0019    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0193    0.0224    0.0161    0.0547    0.0143    0.0073
             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    0.0113    0.0113    0.0113    0.0268    0.0297    0.0235    0.0665    0.0206    0.0149
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0090
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 15PMFNH2.IN (file 1, run 5).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                       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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    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    0.0174    ------    ------    ------    0.0142    0.0037
            ECARBON:    ------    ------    ------    ------    ------    0.0173    0.0065    0.0357    ------    0.0021
            OCARBON:    ------    ------    ------    ------    ------    0.0049    0.0094    0.0180    ------    0.0011
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0019    0.0002    0.0003    0.0009    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0193    0.0224    0.0161    0.0547    0.0143    0.0073
             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    0.0113    0.0113    0.0113    0.0268    0.0297    0.0235    0.0665    0.0206    0.0149
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0090
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 15PMFNH2.IN (file 1, run 6).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                       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:    0.3394    0.4649    0.1584              0.0077    0.0003    0.0024    0.0184    0.0085    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	0.0176	------	------	------	0.0142	0.0036
ECARBON:	------	------	------	------	------	0.0173	0.0065	0.0358	------	0.0007
OCARBON:	------	------	------	------	------	0.0049	0.0094	0.0180	------	0.0004
SO4:	0.0003	0.0005	0.0005	0.0005	0.0017	0.0002	0.0003	0.0009	0.0001	0.0004
Total Exhaust PM:	0.0039	0.0039	0.0040	0.0039	0.0193	0.0224	0.0161	0.0547	0.0143	0.0051
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	0.0113	0.0113	0.0113	0.0268	0.0297	0.0235	0.0665	0.0206	0.0125
SO2:	0.0068	0.0088	0.0115	0.0095	0.0165	0.0029	0.0056	0.0132	0.0033	0.0086
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: 15PMFNH2.IN (file 1, run 7).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                      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:	0.3386	0.4638	0.1580		0.0080	0.0003	0.0024	0.0193	0.0096	1.0000

Composite Emission Factors (g/mi):

Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	------	------	------	0.0000	0.0000
GASPM:	0.0035	0.0034	0.0034	0.0034	0.0179	------	------	------	0.0142	0.0035
ECARBON:	------	------	------	------	------	0.0173	0.0065	0.0358	------	0.0007
OCARBON:	------	------	------	------	------	0.0049	0.0094	0.0180	------	0.0004
SO4:	0.0005	0.0006	0.0006	0.0006	0.0013	0.0002	0.0003	0.0009	0.0002	0.0006
Total Exhaust PM:	0.0040	0.0040	0.0040	0.0040	0.0192	0.0224	0.0161	0.0547	0.0144	0.0052
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	0.0113	0.0113	0.0113	0.0267	0.0297	0.0235	0.0665	0.0207	0.0126
SO2:	0.0067	0.0088	0.0115	0.0095	0.0166	0.0029	0.0056	0.0132	0.0033	0.0086
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0987

```
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 15PMFNH2.IN (file 1, run 8).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                      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:	0.3223	0.4416	0.1504		0.0239	0.0003	0.0023	0.0578	0.0014	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	0.0174	------	------	------	0.0142	0.0037
ECARBON:	------	------	------	------	------	0.0173	0.0065	0.0357	------	0.0021
OCARBON:	------	------	------	------	------	0.0049	0.0094	0.0180	------	0.0011
SO4:	0.0002	0.0004	0.0004	0.0004	0.0019	0.0002	0.0003	0.0009	0.0001	0.0004
Total Exhaust PM:	0.0039	0.0039	0.0039	0.0039	0.0193	0.0224	0.0161	0.0547	0.0143	0.0073
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	0.0113	0.0113	0.0113	0.0268	0.0297	0.0235	0.0665	0.0206	0.0149
SO2:	0.0068	0.0088	0.0115	0.0095	0.0164	0.0029	0.0056	0.0132	0.0033	0.0090
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0957

```
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 15PMFNH2.IN (file 1, run 9).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2015 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                      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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    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    0.0182    ------    ------    ------    0.0142    0.0037
           ECARBON:    ------    ------    ------    ------    ------    0.0179    0.0068    0.0382    ------    0.0022
           OCARBON:    ------    ------    ------    ------    ------    0.0050    0.0097    0.0193    ------    0.0011
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0019    0.0004    0.0008    0.0026    0.0001    0.0005
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0202    0.0234    0.0173    0.0601    0.0143    0.0076
             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    0.0113    0.0113    0.0113    0.0276    0.0307    0.0247    0.0718    0.0206    0.0152
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0084    0.0161    0.0378    0.0033    0.0104
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 15PMFNH2.IN (file 1, run 10).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2015
                                     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:    0.3394    0.4649    0.1584              0.0077    0.0003    0.0024    0.0184    0.0085    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    0.0184    ------    ------    ------    0.0142    0.0037
           ECARBON:    ------    ------    ------    ------    ------    0.0179    0.0068    0.0382    ------    0.0007
           OCARBON:    ------    ------    ------    ------    ------    0.0050    0.0097    0.0192    ------    0.0004
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0017    0.0004    0.0008    0.0026    0.0001    0.0005
  Total Exhaust PM:    0.0039    0.0039    0.0040    0.0040    0.0201    0.0234    0.0173    0.0601    0.0143    0.0052
             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    0.0113    0.0113    0.0113    0.0276    0.0307    0.0247    0.0719    0.0206    0.0126
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0165    0.0084    0.0161    0.0377    0.0033    0.0091
               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: 15PMFNH2.IN (file 1, run 11).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2015
                                     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:    0.3386    0.4638    0.1580              0.0080    0.0003    0.0024    0.0193    0.0096    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0035    0.0034    0.0034    0.0034    0.0187    ------    ------    ------    0.0142    0.0036
           ECARBON:    ------    ------    ------    ------    ------    0.0179    0.0068    0.0382    ------    0.0008
           OCARBON:    ------    ------    ------    ------    ------    0.0050    0.0097    0.0192    ------    0.0004
               SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0004    0.0008    0.0026    0.0002    0.0006
  Total Exhaust PM:    0.0040    0.0040    0.0040    0.0040    0.0200    0.0234    0.0173    0.0600    0.0144    0.0053
             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    0.0113    0.0113    0.0113    0.0275    0.0307    0.0247    0.0719    0.0207    0.0127
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0084    0.0161    0.0377    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 15PMFNH2.IN (file 1, run 12).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2015
```

```
                                  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:      0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    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    0.0182    ------    ------    ------    0.0142    0.0037
           ECARBON:      ------    ------    ------    ------    ------    0.0179    0.0068    0.0382    ------    0.0022
           OCARBON:      ------    ------    ------    ------    ------    0.0050    0.0097    0.0193    ------    0.0011
               SO4:      0.0002    0.0004    0.0004    0.0004    0.0019    0.0004    0.0008    0.0026    0.0001    0.0005
  Total Exhaust PM:      0.0039    0.0039    0.0039    0.0039    0.0202    0.0234    0.0173    0.0601    0.0143    0.0076
             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    0.0113    0.0113    0.0113    0.0277    0.0307    0.0247    0.0718    0.0206    0.0152
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    0.0084    0.0161    0.0378    0.0033    0.0104
               NH3:      0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 15PMFNH2.IN (file 1, run 13).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2015
                                  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:      0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    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    0.0182    ------    ------    ------    0.0142    0.0037
           ECARBON:      ------    ------    ------    ------    ------    0.0179    0.0068    0.0382    ------    0.0022
           OCARBON:      ------    ------    ------    ------    ------    0.0050    0.0097    0.0193    ------    0.0011
               SO4:      0.0002    0.0004    0.0004    0.0004    0.0019    0.0004    0.0008    0.0026    0.0001    0.0005
  Total Exhaust PM:      0.0039    0.0039    0.0039    0.0039    0.0202    0.0234    0.0173    0.0601    0.0143    0.0076
             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    0.0113    0.0113    0.0113    0.0277    0.0307    0.0247    0.0718    0.0206    0.0152
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    0.0084    0.0161    0.0378    0.0033    0.0104
               NH3:      0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 15PMFNH2.IN (file 1, run 14).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2015
                                  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:      0.3394    0.4649    0.1584              0.0077    0.0003    0.0024    0.0184    0.0085    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    0.0184    ------    ------    ------    0.0142    0.0037
           ECARBON:      ------    ------    ------    ------    ------    0.0179    0.0068    0.0382    ------    0.0007
           OCARBON:      ------    ------    ------    ------    ------    0.0050    0.0097    0.0192    ------    0.0004
               SO4:      0.0003    0.0005    0.0005    0.0005    0.0017    0.0004    0.0008    0.0026    0.0001    0.0005
  Total Exhaust PM:      0.0039    0.0039    0.0040    0.0039    0.0201    0.0234    0.0173    0.0601    0.0143    0.0052
             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    0.0113    0.0113    0.0113    0.0276    0.0307    0.0247    0.0719    0.0206    0.0126
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0165    0.0084    0.0161    0.0377    0.0033    0.0091
               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: 15PMFNH2.IN (file 1, run 15).                          *
**********************************************************************
```

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* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                      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:    0.3386    0.4638    0.1580              0.0080    0.0003    0.0024    0.0193    0.0096    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
               Lead:    0.0000    0.0000    0.0000    0.0000    0.0000    ------    ------    ------    0.0000    0.0000
             GASPM:    0.0035    0.0034    0.0034    0.0034    0.0187    ------    ------    ------    0.0142    0.0036
           ECARBON:    ------    ------    ------    ------    ------    0.0179    0.0068    0.0382    ------    0.0008
           OCARBON:    ------    ------    ------    ------    ------    0.0050    0.0097    0.0192    ------    0.0004
               SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0004    0.0008    0.0026    0.0002    0.0006
  Total Exhaust PM:    0.0040    0.0040    0.0040    0.0040    0.0200    0.0234    0.0173    0.0600    0.0144    0.0053
             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    0.0113    0.0113    0.0113    0.0275    0.0307    0.0247    0.0719    0.0207    0.0127
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0084    0.0161    0.0377    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 15PMFNH2.IN (file 1, run 16).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2015 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2015
                                      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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    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    0.0182    ------    ------    ------    0.0142    0.0037
           ECARBON:    ------    ------    ------    ------    ------    0.0179    0.0068    0.0382    ------    0.0022
           OCARBON:    ------    ------    ------    ------    ------    0.0050    0.0097    0.0193    ------    0.0011
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0019    0.0004    0.0008    0.0026    0.0001    0.0005
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0202    0.0234    0.0173    0.0601    0.0143    0.0076
             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    0.0113    0.0113    0.0113    0.0277    0.0307    0.0247    0.0718    0.0206    0.0152
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0084    0.0161    0.0378    0.0033    0.0104
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------
```

```
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 25PMFNH2.IN (file 1, run 1).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2025 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2025
                                      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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    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    0.0093    ------    ------    ------    0.0142    0.0035
           ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0036    0.0114    ------    0.0007
           OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0052    0.0057    ------    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    0.0113    0.0099    0.0092    0.0180    0.0143    0.0049
             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    0.0188    0.0172    0.0165    0.0298    0.0206    0.0125
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 25PMFNH2.IN (file 1, run 2).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2025
                                      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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0094    ------    ------    ------    0.0142    0.0035
           ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0036    0.0114    ------    0.0002
           OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0052    0.0057    ------    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    0.0112    0.0099    0.0092    0.0181    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    0.0187    0.0172    0.0165    0.0299    0.0206    0.0117
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    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    0.0989
 ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 25PMFNH2.IN (file 1, run 3).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2025
                                      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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    0.0099    ------    ------    ------    0.0142    0.0034
           ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0036    0.0114    ------    0.0002
           OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0052    0.0057    ------    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    0.0112    0.0099    0.0092    0.0180    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    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0187    0.0172    0.0165    0.0298    0.0207    0.0118
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0131    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 25PMFNH2.IN (file 1, run 4).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2025
                                       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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    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    0.0092    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0036    0.0114    ------    0.0007
            OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0052    0.0057    ------    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    0.0113    0.0099    0.0092    0.0180    0.0143    0.0049
             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    0.0188    0.0172    0.0165    0.0298    0.0206    0.0125
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 25PMFNH2.IN (file 1, run 5).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2025
                                       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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    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    0.0092    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0036    0.0114    ------    0.0007
            OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0052    0.0057    ------    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    0.0113    0.0099    0.0092    0.0180    0.0143    0.0049
             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    0.0188    0.0172    0.0165    0.0298    0.0206    0.0125
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 25PMFNH2.IN (file 1, run 6).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2025
                                       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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0094    ------    ------    ------    0.0142    0.0035
          ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0036    0.0114    ------    0.0002
          OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0052    0.0057    ------    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    0.0112    0.0099    0.0092    0.0181    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    0.0187    0.0172    0.0165    0.0299    0.0206    0.0117
              SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    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    0.0989
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 25PMFNH2.IN (file 1, run 7).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2025
                                     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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    0.0099    ------    ------    ------    0.0142    0.0034
          ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0036    0.0114    ------    0.0002
          OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0052    0.0057    ------    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    0.0112    0.0099    0.0092    0.0180    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    0.0065    0.0010    0.0021
         Total PM:    0.0112    0.0113    0.0113    0.0113    0.0187    0.0172    0.0165    0.0298    0.0207    0.0118
              SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0131    0.0033    0.0087
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 25PMFNH2.IN (file 1, run 8).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2025
                                     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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    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    0.0092    ------    ------    ------    0.0142    0.0035
          ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0036    0.0114    ------    0.0007
          OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0052    0.0057    ------    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    0.0113    0.0099    0.0092    0.0180    0.0143    0.0049
            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    0.0188    0.0172    0.0165    0.0298    0.0206    0.0125
              SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 25PMFNH2.IN (file 1, run 9).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2025 O3 SEASON w/ASM I/M W/gascap, ATP, RFG2
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2025
                                     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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    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    0.0094    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0037    0.0117    ------    0.0007
            OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0053    0.0059    ------    0.0004
                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    0.0114    0.0099    0.0092    0.0185    0.0143    0.0050
             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    0.0189    0.0173    0.0165    0.0303    0.0206    0.0125
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.IN (file 1, run 10).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2025
                                     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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0096    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0037    0.0117    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0053    0.0059    ------    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    0.0114    0.0099    0.0092    0.0186    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    0.0189    0.0173    0.0165    0.0304    0.0206    0.0117
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    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    0.0989
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.IN (file 1, run 11).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2025
                                     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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    0.0100    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0037    0.0117    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0053    0.0059    ------    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    0.0113    0.0099    0.0092    0.0185    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    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0188    0.0173    0.0165    0.0303    0.0207    0.0118
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0131    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.IN (file 1, run 12).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2025
```

```
                                  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:      0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    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    0.0094    ------    ------    ------    0.0142    0.0035
           ECARBON:      ------    ------    ------    ------    ------    0.0076    0.0037    0.0117    ------    0.0007
           OCARBON:      ------    ------    ------    ------    ------    0.0021    0.0053    0.0059    ------    0.0004
               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    0.0114    0.0099    0.0092    0.0185    0.0143    0.0050
             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    0.0189    0.0173    0.0165    0.0303    0.0206    0.0125
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:      0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.IN (file 1, run 13).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2025
                                  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:      0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    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    0.0094    ------    ------    ------    0.0142    0.0035
           ECARBON:      ------    ------    ------    ------    ------    0.0076    0.0037    0.0117    ------    0.0007
           OCARBON:      ------    ------    ------    ------    ------    0.0021    0.0053    0.0059    ------    0.0004
               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    0.0114    0.0099    0.0092    0.0185    0.0143    0.0050
             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    0.0189    0.0173    0.0165    0.0303    0.0206    0.0125
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:      0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.IN (file 1, run 14).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2025
                                  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:      0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0096    ------    ------    ------    0.0142    0.0035
           ECARBON:      ------    ------    ------    ------    ------    0.0076    0.0037    0.0117    ------    0.0002
           OCARBON:      ------    ------    ------    ------    ------    0.0021    0.0053    0.0059    ------    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    0.0114    0.0099    0.0092    0.0186    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    0.0189    0.0173    0.0165    0.0304    0.0206    0.0117
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    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    0.0989
 -----------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.IN (file 1, run 15).                          *
**********************************************************************
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2025
                                      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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    0.0100    ------    ------    ------    0.0142    0.0034
            ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0037    0.0117    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0053    0.0059    ------    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    0.0113    0.0099    0.0092    0.0185    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    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0188    0.0173    0.0165    0.0303    0.0118    0.0118
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0131    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.IN (file 1, run 16).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2025 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2025
                                      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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    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    0.0094    ------    ------    ------    0.0142    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0076    0.0037    0.0117    ------    0.0007
            OCARBON:    ------    ------    ------    ------    ------    0.0021    0.0053    0.0059    ------    0.0004
                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    0.0114    0.0099    0.0092    0.0185    0.0143    0.0050
             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    0.0189    0.0173    0.0165    0.0303    0.0206    0.0125
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------
```

```
*************************************************************************
* 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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    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    ------    0.0004
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
                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    0.0045
              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    0.0065    0.0010    0.0023
           Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0121
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* 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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
            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    0.0168    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    0.0087
                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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    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    0.0122    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    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0159    0.0159    0.0240    0.0207    0.0116
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0131    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* 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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    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    ------    0.0004
           OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
               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    0.0045
             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    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0121
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* 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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    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    ------    0.0004
           OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
               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    0.0045
             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    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0121
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* 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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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	0.0035
ECARBON:	------	------	------	------	------	0.0065	0.0034	0.0075	------	0.0001
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	0.0168	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	0.0087
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:	0.3084	0.4861	0.1657		0.0081	0.0003	0.0025	0.0193	0.0096	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	------	0.0002
OCARBON:	------	------	------	------	------	0.0018	0.0049	0.0038	------	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	0.0122	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	0.0065	0.0010	0.0021
Total PM:	0.0112	0.0113	0.0113	0.0113	0.0168	0.0159	0.0159	0.0240	0.0207	0.0116
SO2:	0.0067	0.0088	0.0115	0.0095	0.0166	0.0029	0.0056	0.0131	0.0033	0.0087
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0987

```
**************************************************************************
* 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:	0.2935	0.4631	0.1578		0.0239	0.0003	0.0024	0.0576	0.0014	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	------	0.0004
OCARBON:	------	------	------	------	------	0.0018	0.0049	0.0038	------	0.0002
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	0.0045
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	0.0065	0.0010	0.0023
Total PM:	0.0112	0.0112	0.0112	0.0112	0.0169	0.0159	0.0159	0.0241	0.0206	0.0121
SO2:	0.0068	0.0088	0.0115	0.0095	0.0164	0.0029	0.0056	0.0132	0.0033	0.0091
NH3:	0.1017	0.1017	0.1017	0.1017	0.0451	0.0068	0.0068	0.0270	0.0113	0.0957

```
**************************************************************************
* 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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    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    ------    0.0004
           OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
               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    0.0045
             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    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0121
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* 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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0035
           ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
           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    0.0087
               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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    ------    0.0002
           OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    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    0.0122    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    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0159    0.0159    0.0240    0.0207    0.0116
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0131    0.0033    0.0087
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* 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:      0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    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    ------    0.0004
            OCARBON:     ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
                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    0.0045
             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    0.0065    0.0010    0.0023
          Total PM:     0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0121
               SO2:     0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:     0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* 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:      0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    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    ------    0.0004
            OCARBON:     ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
                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    0.0045
             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    0.0065    0.0010    0.0023
          Total PM:     0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0121
               SO2:     0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
               NH3:     0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* 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:      0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0035
            ECARBON:     ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
            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    0.0087
               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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    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    0.0122    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    0.0065    0.0010    0.0021
           Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0159    0.0159    0.0240    0.0207    0.0116
                SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0029    0.0056    0.0131    0.0033    0.0087
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* 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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    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    ------    0.0004
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
                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    0.0045
              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    0.0065    0.0010    0.0023
           Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0159    0.0159    0.0241    0.0206    0.0121
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0029    0.0056    0.0132    0.0033    0.0091
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------
```

```
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 40PMFNH2.IN (file 1, run 1).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2040 O3 SEASON w/ASM I/M W/gascap, ATP, RFG1
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2040
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   11. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    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    ------    0.0004
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0001    0.0002    0.0007    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    0.0143    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    0.0065    0.0010    0.0023
           Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0158    0.0159    0.0238    0.0206    0.0121
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0089
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 40PMFNH2.IN (file 1, run 2).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2040
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   11. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
                SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0001    0.0002    0.0007    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    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    0.0168    0.0158    0.0159    0.0238    0.0206    0.0116
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0087
                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: 40PMFNH2.IN (file 1, run 3).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2040
                                      Month:  July
                Gasoline Fuel Sulfur Content:   30. ppm
                  Diesel Fuel Sulfur Content:   11. ppm
                        Particle Size Cutoff:  2.50 Microns
                            Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                 <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0001    0.0002    0.0007    0.0002    0.0006
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0093    0.0085    0.0085    0.0120    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    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0158    0.0159    0.0238    0.0207    0.0116
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0022    0.0041    0.0096    0.0033    0.0086
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 40PMFNH2.IN (file 1, run 4).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2040
                                       Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   11. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    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    ------    0.0004
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0001    0.0002    0.0007    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    0.0143    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    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0158    0.0159    0.0238    0.0206    0.0121
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0089
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 40PMFNH2.IN (file 1, run 5).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2040
                                       Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   11. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    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    ------    0.0004
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0020    0.0001    0.0002    0.0007    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    0.0143    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    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0158    0.0159    0.0238    0.0206    0.0121
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0089
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 40PMFNH2.IN (file 1, run 6).                              *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2040
                                       Month:  July
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   11. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0035
          ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
          OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
              SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0001    0.0002    0.0007    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    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    0.0168    0.0158    0.0159    0.0238    0.0206    0.0116
              SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0087
              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: 40PMFNH2.IN (file 1, run 7).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2040
                                     Month:  July
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   11. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    ------    0.0002
          OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
              SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0001    0.0002    0.0007    0.0002    0.0006
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0093    0.0085    0.0085    0.0120    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    0.0065    0.0010    0.0021
         Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0158    0.0159    0.0238    0.0207    0.0116
              SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0022    0.0041    0.0096    0.0033    0.0086
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 40PMFNH2.IN (file 1, run 8).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Summer 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 8, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2040
                                     Month:  July
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   11. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    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    ------    0.0004
          OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
              SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0001    0.0002    0.0007    0.0001    0.0004
  Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    0.0143    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    0.0065    0.0010    0.0023
         Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0158    0.0159    0.0238    0.0206    0.0121
              SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0089
              NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 ------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 40PMFNH2.IN (file 1, run 9).                               *
**************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2040 O3 SEASON w/ASM I/M W/gascap, ATP, RFG1
* File 1, Run 9, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2040
                                     Month:  Jan.
             Gasoline Fuel Sulfur Content:   30. ppm
               Diesel Fuel Sulfur Content:   11. ppm
                     Particle Size Cutoff:  2.50 Microns
                         Reformulated Gas:  Yes
```

```
       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    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    ------    0.0004
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
               SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0001    0.0002    0.0007    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    0.0143    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    0.0065    0.0010    0.0023
          Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0158    0.0159    0.0238    0.0206    0.0121
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0089
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 40PMFNH2.IN (file 1, run 10).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 10, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2040
                                     Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   11. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0035
            ECARBON:    ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
               SO4:    0.0003    0.0005    0.0005    0.0005    0.0018    0.0001    0.0002    0.0007    0.0001    0.0004
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    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    0.0158    0.0159    0.0238    0.0206    0.0116
               SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0087
               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: 40PMFNH2.IN (file 1, run 11).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 11, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2040
                                     Month:  Jan.
               Gasoline Fuel Sulfur Content:   30. ppm
                 Diesel Fuel Sulfur Content:   11. ppm
                       Particle Size Cutoff:  2.50 Microns
                           Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
               SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0001    0.0002    0.0007    0.0002    0.0006
   Total Exhaust PM:    0.0039    0.0039    0.0039    0.0039    0.0093    0.0085    0.0085    0.0120    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    0.0065    0.0010    0.0021
          Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0158    0.0159    0.0238    0.0207    0.0116
               SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0022    0.0041    0.0096    0.0033    0.0086
               NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 40PMFNH2.IN (file 1, run 12).                             *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Fairfield County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 12, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                             Calendar Year:  2040
```

```
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   11. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:      0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    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    ------    0.0004
            OCARBON:     ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
                SO4:     0.0002    0.0004    0.0004    0.0004    0.0021    0.0001    0.0002    0.0007    0.0001    0.0004
   Total Exhaust PM:     0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    0.0143    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    0.0065    0.0010    0.0023
          Total PM:      0.0112    0.0112    0.0112    0.0112    0.0169    0.0158    0.0159    0.0238    0.0206    0.0121
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0089
               NH3:      0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 40PMFNH2.IN (file 1, run 13).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 13, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2040
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   11. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:      0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    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    ------    0.0004
            OCARBON:     ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
                SO4:     0.0002    0.0004    0.0004    0.0004    0.0021    0.0001    0.0002    0.0007    0.0001    0.0004
   Total Exhaust PM:     0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    0.0143    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    0.0065    0.0010    0.0023
          Total PM:      0.0112    0.0112    0.0112    0.0112    0.0169    0.0158    0.0159    0.0238    0.0206    0.0121
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0089
               NH3:      0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 40PMFNH2.IN (file 1, run 14).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 14, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #

                            Calendar Year:  2040
                                  Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   11. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:      0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    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    0.0035
            ECARBON:     ------    ------    ------    ------    ------    0.0065    0.0034    0.0075    ------    0.0001
            OCARBON:     ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
                SO4:     0.0003    0.0005    0.0005    0.0005    0.0018    0.0001    0.0002    0.0007    0.0001    0.0004
   Total Exhaust PM:     0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    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    0.0158    0.0159    0.0238    0.0206    0.0116
               SO2:      0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0087
               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: 40PMFNH2.IN (file 1, run 15).                          *
**********************************************************************
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 15, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2040
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   11. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  Yes

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    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    ------    0.0002
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0001
                SO4:    0.0005    0.0006    0.0006    0.0006    0.0013    0.0001    0.0002    0.0007    0.0002    0.0006
  Total Exhaust PM:     0.0039    0.0039    0.0039    0.0039    0.0093    0.0085    0.0085    0.0120    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    0.0065    0.0010    0.0021
           Total PM:    0.0112    0.0113    0.0113    0.0113    0.0168    0.0158    0.0159    0.0238    0.0207    0.0116
                SO2:    0.0067    0.0088    0.0115    0.0095    0.0166    0.0022    0.0041    0.0096    0.0033    0.0086
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0987
 -----------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 40PMFNH2.IN (file 1, run 16).                          *
**********************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* New Haven County Winter 2040 O3 SEASON w/OBD/ASM/idle I/M W/gascap, ATP, RFG2
* File 1, Run 16, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

                              Calendar Year:  2040
                                      Month:  Jan.
              Gasoline Fuel Sulfur Content:   30. ppm
                Diesel Fuel Sulfur Content:   11. ppm
                      Particle Size Cutoff:  2.50 Microns
                          Reformulated Gas:  Yes

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    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    ------    0.0004
            OCARBON:    ------    ------    ------    ------    ------    0.0018    0.0049    0.0038    ------    0.0002
                SO4:    0.0002    0.0004    0.0004    0.0004    0.0021    0.0001    0.0002    0.0007    0.0001    0.0004
  Total Exhaust PM:     0.0039    0.0039    0.0039    0.0039    0.0094    0.0085    0.0085    0.0120    0.0143    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    0.0065    0.0010    0.0023
           Total PM:    0.0112    0.0112    0.0112    0.0112    0.0169    0.0158    0.0159    0.0238    0.0206    0.0121
                SO2:    0.0068    0.0088    0.0115    0.0095    0.0164    0.0022    0.0041    0.0096    0.0033    0.0089
                NH3:    0.1017    0.1017    0.1017    0.1017    0.0451    0.0068    0.0068    0.0270    0.0113    0.0957
 -----------------------------------------------------------------------------------------------------------------------
```

APPENDIX F

NOx PRECURSOR EMISSION OUTPUT FILES

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2015\15SVMT1S.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 2015 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:  2015
                            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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.306     0.250     0.307     0.264     0.335    0.084     0.137     0.212      3.33     0.281
     Composite NOX :      0.254     0.290     0.409     0.320     1.229    0.183     0.303     4.386      1.73     0.557
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2015\15SVMT1S.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 2015 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:  2015
                            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:    0.3394    0.4649    0.1584              0.0077    0.0003    0.0024    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.369     0.294     0.363     0.311     0.488    0.110     0.185     0.332      3.61     0.360
     Composite NOX :      0.252     0.284     0.406     0.315     1.029    0.135     0.221     2.917      1.35     0.356
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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 2015 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:  2015
                              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:    0.3386    0.4638    0.1580              0.0080    0.0003    0.0024    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.452     0.364     0.447     0.385     0.769    0.160     0.274     0.557      4.55     0.454
     Composite NOX :      0.232     0.267     0.371     0.293     0.883    0.165     0.273     3.238      1.15     0.342
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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 2015 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:  2015
                            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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.346     0.274     0.344     0.292     0.386    0.096     0.159     0.266      3.21     0.314
     Composite NOX :      0.276     0.304     0.453     0.342     1.064    0.123     0.202     2.426      1.40     0.459
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
```

```
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2015\15SVMT5S.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 2015 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:  2015
                             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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.302     0.247     0.302     0.261     0.322    0.082     0.133     0.201      3.35     0.276
     Composite NOX :      0.256     0.292     0.413     0.323     1.253    0.192     0.318     4.574      1.78     0.571
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2015\15SVMT5S.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 2015 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:  2015
                             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:    0.3394    0.4649    0.1584              0.0077    0.0003    0.0024    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.363     0.289     0.358     0.307     0.475    0.109     0.181     0.324      3.56     0.355
     Composite NOX :      0.250     0.282     0.404     0.313     1.035    0.134     0.220     2.898      1.35     0.354
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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 2015 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:  2015
                            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:    0.3386    0.4638    0.1580              0.0080    0.0003    0.0024    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.452     0.364     0.447     0.385     0.769    0.160     0.274     0.557      4.55     0.454
     Composite NOX :      0.232     0.267     0.371     0.293     0.883    0.165     0.273     3.238      1.15     0.342
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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 2015 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:  2015
                            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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.346     0.274     0.344     0.292     0.386    0.096     0.159     0.266      3.21     0.314
     Composite NOX :      0.276     0.304     0.453     0.342     1.064    0.123     0.202     2.426      1.40     0.459
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2015\15SVMT1W.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 2015 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.
  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:  2015
                            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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.313     0.268     0.350     0.289     0.291    0.082     0.135     0.203      3.21     0.295
     Composite NOX :      0.297     0.334     0.494     0.374     1.408    0.197     0.326     4.862      2.09     0.636
  -----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2015\15SVMT1W.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 2015 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.
  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:  2015
                            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:    0.3394    0.4649    0.1584              0.0077    0.0003    0.0024    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.372     0.303     0.403     0.329     0.467    0.108     0.182     0.323      3.40     0.370
     Composite NOX :      0.282     0.318     0.478     0.359     1.167    0.137     0.226     3.082      1.59     0.399
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 15PMFNH2.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: CTREG05.D
```

```
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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 2015 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.
  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:  2015
                             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:    0.3386    0.4638    0.1580              0.0080    0.0003    0.0024    0.0193    0.0096    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.466     0.376     0.496     0.407     0.846    0.162     0.279     0.565      4.43     0.472
```

```
     Composite NOX :      0.259     0.302     0.440     0.337     0.994    0.171     0.283     3.462      1.34     0.386
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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 2015 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.
  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:  2015
                            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:    0.3223    0.4416    0.1504               0.0239    0.0003    0.0023    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.359     0.294     0.397     0.320     0.365    0.097     0.161     0.270      3.09     0.334
     Composite NOX :      0.324     0.346     0.543     0.396     1.198    0.127     0.210     2.594      1.64     0.520
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2015\15SVMT5W.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 2015 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.
  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:  2015
                              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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.310     0.266     0.347     0.287     0.281    0.081     0.132     0.197      3.27     0.293
     Composite NOX :      0.300     0.337     0.497     0.377     1.427    0.206     0.341     5.055      2.15     0.650
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2015\15SVMT5W.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 2015 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.
  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:  2015
                            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:    0.3394    0.4649    0.1584              0.0077    0.0003    0.0024    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.367     0.300     0.399     0.325     0.453    0.107     0.179     0.315      3.36     0.365
     Composite NOX :      0.281     0.317     0.475     0.357     1.174    0.136     0.225     3.065      1.60     0.397
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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 2015 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.
  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:  2015
                             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:    0.3386    0.4638    0.1580              0.0080    0.0003    0.0024    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.466     0.376     0.496     0.407     0.846    0.162     0.279     0.565      4.43     0.472
     Composite NOX :      0.259     0.302     0.440     0.337     0.994    0.171     0.283     3.462      1.34     0.386
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 15PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
```

```
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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 2015 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.
  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:  2015
                            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:    0.3223    0.4416    0.1504              0.0239    0.0003    0.0023    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.359     0.294     0.397     0.320     0.365    0.097     0.161     0.270      3.09     0.334
     Composite NOX :      0.324     0.346     0.543     0.396     1.198    0.127     0.210     2.594      1.64     0.520
  ---------------------------------------------------------------------------------------------------------------------
```

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2025\25SVMT1S.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 2025 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:  2025
                            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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.183     0.205     0.189     0.165    0.042     0.082     0.182      2.79     0.188
     Composite NOX :      0.118     0.181     0.255     0.200     0.379    0.041     0.157     1.126      1.70     0.236
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2025\25SVMT1S.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 2025 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:  2025
                             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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.227     0.222     0.249     0.229     0.268    0.056     0.112     0.283      3.12     0.254
     Composite NOX :      0.119     0.179     0.254     0.198     0.318    0.031     0.117     0.812      1.34     0.196
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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 2025 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:  2025
                              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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.289     0.281     0.312     0.289     0.440    0.081     0.167     0.465      4.01     0.329
     Composite NOX :      0.109     0.166     0.223     0.180     0.275    0.038     0.144     0.975      1.15     0.183
  ---------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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 2025 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:  2025
                            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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.201     0.199     0.228     0.206     0.194    0.047     0.094     0.222      2.67     0.209
     Composite NOX :      0.132     0.192     0.292     0.217     0.330    0.028     0.106     0.726      1.40     0.226
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
```

```
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2025\25SVMT5S.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 2025 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:  2025
                             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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.172     0.179     0.201     0.185     0.152    0.040     0.078     0.169      2.81     0.183
     Composite NOX :      0.119     0.184     0.258     0.203     0.388    0.043     0.166     1.192      1.78     0.242
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2025\25SVMT5S.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 2025 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:  2025
                             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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.224     0.219     0.246     0.226     0.261    0.055     0.111     0.278      3.08     0.251
     Composite NOX :      0.119     0.178     0.253     0.197     0.319    0.030     0.117     0.808      1.35     0.195
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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 2025 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:  2025
                            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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.289     0.281     0.312     0.289     0.440    0.081     0.167     0.465      4.01     0.329
     Composite NOX :      0.109     0.166     0.223     0.180     0.275    0.038     0.144     0.975      1.15     0.183
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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 2025 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:  2025
                            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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.201     0.199     0.228     0.206     0.194    0.047     0.094     0.222      2.67     0.209
     Composite NOX :      0.132     0.192     0.292     0.217     0.330    0.028     0.106     0.726      1.40     0.226
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2025\25SVMT1W.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 2025 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:  2025
                            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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.182     0.194     0.233     0.204     0.145    0.039     0.078     0.171      2.67     0.197
     Composite NOX :      0.132     0.197     0.297     0.222     0.424    0.043     0.164     1.220      2.07     0.261
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2025\25SVMT1W.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 2025 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:  2025
                            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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.228     0.225     0.271     0.237     0.261     0.053     0.108     0.272      2.90     0.257
     Composite NOX :      0.126     0.188     0.286     0.213     0.352     0.030     0.116     0.831      1.59     0.210
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
```

```
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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 2025 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:  2025
                             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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.298     0.285     0.338     0.299     0.488    0.080     0.166     0.467      3.89     0.337
     Composite NOX :      0.114     0.175     0.253     0.195     0.302    0.038     0.144     1.012      1.34     0.197
  ---------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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 2025 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:  2025
                            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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.209     0.210     0.260     0.223     0.189    0.047     0.093     0.223      2.55     0.221
     Composite NOX :      0.150     0.206     0.337     0.239     0.363    0.028     0.107     0.754      1.64     0.247
  ---------------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2025\25SVMT5W.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 2025 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:  2025
                            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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.193     0.231     0.202     0.137    0.038     0.076     0.163      2.71     0.195
     Composite NOX :      0.134     0.199     0.299     0.225     0.431    0.045     0.172     1.281      2.14     0.266
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2025\25SVMT5W.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 2025 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:  2025
                            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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.225     0.223     0.268     0.234     0.254    0.053     0.106     0.267      2.87     0.254
     Composite NOX :      0.125     0.187     0.285     0.212     0.354    0.030     0.115     0.827      1.59     0.209
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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 2025 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:  2025
                            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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.298     0.285     0.338     0.299     0.488    0.080     0.166     0.467      3.89     0.337
     Composite NOX :      0.114     0.175     0.253     0.195     0.302    0.038     0.144     1.012      1.34     0.197
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 25PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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 2025 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:  2025
                            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:    0.2933    0.4630    0.1578              0.0240    0.0003    0.0024    0.0578    0.0014    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.209     0.210     0.260     0.223     0.189    0.047     0.093     0.223      2.55     0.221
     Composite NOX :      0.150     0.206     0.337     0.239     0.363    0.028     0.107     0.754      1.64     0.247
  ---------------------------------------------------------------------------------------------------------------------
```

```
************************************************************************
* 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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.172     0.181     0.196     0.184     0.150    0.038     0.072     0.171      2.78     0.183
     Composite NOX :      0.106     0.178     0.237     0.193     0.191    0.034     0.143     0.594      1.71     0.192
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.224     0.222     0.241     0.227     0.249    0.052     0.102     0.273      3.14     0.251
     Composite NOX :      0.109     0.176     0.235     0.191     0.159    0.025     0.106     0.440      1.34     0.179
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* 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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.285     0.279     0.302     0.285     0.398    0.076     0.152     0.444      4.01     0.324
     Composite NOX :      0.099     0.162     0.204     0.172     0.138    0.031     0.130     0.539      1.15     0.166
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.196     0.197     0.219     0.203     0.180    0.044     0.084     0.212      2.67     0.204
     Composite NOX :      0.120     0.188     0.272     0.209     0.166    0.023     0.096     0.397      1.40     0.194
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
```

```
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.169     0.178     0.193     0.182     0.142    0.037     0.069     0.162      2.79     0.179
     Composite NOX :      0.107     0.179     0.239     0.194     0.194    0.035     0.148     0.618      1.76     0.195
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.221     0.219     0.238     0.224     0.243    0.051     0.100     0.268      3.10     0.248
     Composite NOX :      0.108     0.175     0.234     0.190     0.160    0.025     0.105     0.437      1.34     0.178
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.285     0.279     0.302     0.285     0.398    0.076     0.152     0.444      4.01     0.324
     Composite NOX :      0.099     0.162     0.204     0.172     0.138    0.031     0.130     0.539      1.15     0.166
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.196     0.197     0.219     0.203     0.180    0.044     0.084     0.212      2.67     0.204
     Composite NOX :      0.120     0.188     0.272     0.209     0.166    0.023     0.096     0.397      1.40     0.194
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* 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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.191     0.219     0.198     0.129    0.036     0.067     0.159      2.66     0.191
     Composite NOX :      0.119     0.192     0.273     0.213     0.206    0.035     0.148     0.622      2.08     0.211
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.223     0.223     0.257     0.232     0.238     0.050     0.097     0.260      2.91     0.252
     Composite NOX :      0.113     0.183     0.262     0.203     0.170     0.025     0.104     0.432      1.58     0.191
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
```

```
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.292     0.282     0.323     0.293     0.432    0.075     0.150     0.444      3.89     0.331
     Composite NOX :      0.102     0.170     0.229     0.185     0.146    0.031     0.129     0.539      1.34     0.177
  ---------------------------------------------------------------------------------------------------------------------
**********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.203     0.208     0.245     0.217     0.172    0.043     0.083     0.212      2.55     0.214
     Composite NOX :      0.136     0.201     0.311     0.229     0.175    0.023     0.095     0.397      1.64     0.211
  ---------------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.174     0.190     0.218     0.198     0.126    0.035     0.067     0.156      2.70     0.190
     Composite NOX :      0.120     0.194     0.275     0.214     0.208    0.036     0.153     0.642      2.12     0.213
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* 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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\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:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.221     0.222     0.255     0.230     0.233    0.049     0.095     0.256      2.88     0.250
     Composite NOX :      0.112     0.182     0.261     0.202     0.170    0.025     0.103     0.430      1.59     0.190
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.292     0.282     0.323     0.293     0.432    0.075     0.150     0.444      3.89     0.331
     Composite NOX :      0.102     0.170     0.229     0.185     0.146    0.031     0.129     0.539      1.34     0.177
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* 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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:    0.2935    0.4631    0.1578              0.0239    0.0003    0.0024    0.0576    0.0014    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.203     0.208     0.245     0.217     0.172    0.043     0.083     0.212      2.55     0.214
     Composite NOX :      0.136     0.201     0.311     0.229     0.175    0.023     0.095     0.397      1.64     0.211
  ---------------------------------------------------------------------------------------------------------------------
```

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT1S.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 2040 O3 SEASON w/ASM I/M W/gascap, ATP, RFG1
* 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:  2040
                            Month:  July
                         Altitude:  Low
```

```
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.183     0.198     0.187     0.148    0.038     0.071     0.168      2.76     0.184
     Composite NOX :      0.107     0.178     0.237     0.193     0.192    0.034     0.143     0.598      1.72     0.193
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT1S.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 2040 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:  2040
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.227     0.226     0.245     0.231     0.251    0.052     0.102     0.273      3.14     0.255
     Composite NOX :      0.109     0.176     0.235     0.191     0.159    0.025     0.106     0.440      1.34     0.179
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT1S.CTY

* 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 2040 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:  2040
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.287     0.283     0.306     0.289     0.402    0.076     0.152     0.444      4.00     0.327
     Composite NOX :      0.099     0.162     0.204     0.172     0.138    0.031     0.130     0.539      1.15     0.166
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT1S.CTY

* 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 2040 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:  2040
                             Month:  July
                          Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.199     0.200     0.223     0.206     0.181    0.044     0.084     0.212      2.66     0.207
     Composite NOX :      0.120     0.188     0.272     0.209     0.166    0.023     0.096     0.397      1.40     0.194
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT5S.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 2040 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:  2040
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  51.9 (F)
              Maximum Temperature:  74.9 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.171     0.182     0.197     0.185     0.145    0.037     0.070     0.164      2.78     0.182
     Composite NOX :      0.107     0.179     0.238     0.194     0.193    0.035     0.147     0.613      1.75     0.194
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT5S.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 2040 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:  2040
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  51.9 (F)
               Maximum Temperature:  74.9 (F)
                 Absolute Humidity:   75. grains/lb
               Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.227     0.225     0.245     0.230     0.251    0.052     0.102     0.274      3.13     0.254
     Composite NOX :      0.109     0.176     0.235     0.191     0.159    0.025     0.106     0.439      1.34     0.179
  ---------------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
```

```
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT5S.CTY

* 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 2040 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:  2040
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  51.9 (F)
             Maximum Temperature:  74.9 (F)
               Absolute Humidity:   75. grains/lb
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.287     0.283     0.306     0.289     0.402     0.076     0.152     0.444      4.00     0.327
     Composite NOX :      0.099     0.162     0.204     0.172     0.138     0.031     0.130     0.539      1.15     0.166
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT5S.CTY

* 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 2040 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:  2040
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  51.9 (F)
               Maximum Temperature:  74.9 (F)
                 Absolute Humidity:   75. grains/lb
               Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      0.199     0.200     0.223     0.206     0.181    0.044     0.084     0.212      2.66     0.207
     Composite NOX :      0.120     0.188     0.272     0.209     0.166    0.023     0.096     0.397      1.40     0.194
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT1W.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 2040 O3 SEASON w/ASM I/M W/gascap, ATP, RFG1
* 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
  M112 Warning:
               Wintertime Reformulated Gasoline Rules Apply
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  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:  2040
                            Month:  Jan.
                         Altitude:  Low
```

```
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.196     0.225     0.203     0.129    0.036     0.067     0.158      2.66     0.195
     Composite NOX :      0.119     0.193     0.273     0.213     0.206    0.036     0.149     0.627      2.10     0.212
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT1W.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 2040 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
```

```
  M112 Warning:
               Wintertime Reformulated Gasoline Rules Apply
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  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:  2040
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.228     0.229     0.264     0.238     0.243    0.050     0.097     0.261      2.91     0.258
     Composite NOX :      0.113     0.183     0.262     0.203     0.170    0.025     0.104     0.432      1.58     0.191
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT1W.CTY

* 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 2040 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
  M112 Warning:
              Wintertime Reformulated Gasoline Rules Apply
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  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:  2040
                            Month:  Jan.
                         Altitude:  Low
             Minimum Temperature:  26.2 (F)
             Maximum Temperature:  45.4 (F)
               Absolute Humidity:   75. grains/lb
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.297     0.289     0.331     0.299     0.440    0.075     0.150     0.444      3.89     0.337
     Composite NOX :      0.102     0.170     0.229     0.185     0.146    0.031     0.129     0.539      1.34     0.177
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT1W.CTY

* 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 2040 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
  M112 Warning:
               Wintertime Reformulated Gasoline Rules Apply
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  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:  2040
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.207     0.213     0.252     0.223     0.175    0.043     0.083     0.212      2.55     0.220
     Composite NOX :      0.136     0.201     0.311     0.229     0.175    0.023     0.095     0.397      1.64     0.211
  ---------------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT5W.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 2040 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
  M112 Warning:
               Wintertime Reformulated Gasoline Rules Apply
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  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:  2040
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.2937    0.4631    0.1579              0.0238    0.0003    0.0024    0.0574    0.0014    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.196     0.225     0.203     0.128     0.036     0.067     0.157      2.69     0.195
     Composite NOX :      0.119     0.193     0.274     0.214     0.207     0.036     0.152     0.638      2.12     0.213
  ---------------------------------------------------------------------------------------------------------------------
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
```

```
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT5W.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 2040 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
  M112 Warning:
               Wintertime Reformulated Gasoline Rules Apply
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  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:  2040
                             Month:  Jan.
                          Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3091    0.4873    0.1662              0.0077    0.0003    0.0025    0.0184    0.0085    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.229     0.230     0.265     0.238     0.243    0.050     0.097     0.261      2.92     0.258
     Composite NOX :      0.113     0.183     0.262     0.203     0.169    0.025     0.104     0.432      1.58     0.191
  ---------------------------------------------------------------------------------------------------------------------------
**************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                             *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT5W.CTY

* 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 2040 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
  M112 Warning:
               Wintertime Reformulated Gasoline Rules Apply
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  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:  2040
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
              Maximum Temperature:  45.4 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3084    0.4861    0.1657              0.0081    0.0003    0.0025    0.0193    0.0096    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      0.297     0.289     0.331     0.299     0.440    0.075     0.150     0.444      3.89     0.337
     Composite NOX :      0.102     0.170     0.229     0.185     0.146    0.031     0.129     0.539      1.34     0.177
  ---------------------------------------------------------------------------------------------------------------------------
**********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                         *
* Input file: 40PMFNH2.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: CTREG05.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* 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:\SER29B\2040\40SVMT5W.CTY

* 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 2040 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
  M112 Warning:
               Wintertime Reformulated Gasoline Rules Apply
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  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:  2040
                            Month:  Jan.
                         Altitude:  Low
              Minimum Temperature:  26.2 (F)
```

```
Maximum Temperature:  45.4 (F)
  Absolute Humidity:   75. grains/lb
Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2937	0.4631	0.1579		0.0238	0.0003	0.0024	0.0574	0.0014	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.207	0.213	0.252	0.223	0.175	0.043	0.083	0.212	2.55	0.220
Composite NOX :	0.136	0.201	0.311	0.229	0.175	0.023	0.095	0.397	1.64	0.211

APPENDIX G

ACRONYMS

Acronyms

Acronym	Meaning
CAAA	Clean Air Act Amendments (1990)
CO	Carbon Monoxide
CTDOT	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